CURRICULUM VITAE

Milena Radenkovic, PhD, Dipl.-Ing. (Honours), BA (Honours)

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Summary:

Dr Milena Radenkovic graduated from the Faculty of Electronic Engineering, University of Nis, Yugoslavia and received her doctorate from School of Computer Science, The University of Nottingham, Great Britain. She is Lecturer in Computer Science at the University of Nottingham and member of the Mixed Reality Lab, Professor in Computer Science at Alfa BK University, Serbia and has held academic positions at universities in Serbia, England, Germany and Spain. She is member of the British Computer Society, ACM and IEEE, and Fellow of Higher Academy of Education. Dr Radenkovic is a member of the committee for defence of doctoral dissertations in Great Britain, Spain and around the world. She is a Visiting Researcher at Microsoft Research, Cambridge and Consultant for Netico Group. She serves as Expert and Quality Controller for a large number of international and national science ministries, government bodies, commissions and councils around the world.

Dr Radenkovic has led programmes, comprising lectures, seminars tutorials and other form of teaching activities for undergraduate, MSC, PhD and apprenticeships degree students.

Dr Radenkovic led the School MSC Data Science Programme design and delivery and created advertising material about MSC Data Science curriculum to be distributed throughout University of Nottingham campuses in China and Malaysia. Dr Radenkovic is Director of Software Engineering and e-Business programmes and she has written the programme specification and learning outcome maps for both.

Dr Radenkovic is permanent Teaching Committee Member and has co-led the design for ACM certified Computer Science degree.
In her role as Advanced Higher Education Athena SWAN Chair and Equality Diversity and Inclusion Vice Chair, Dr Radenkovic led new teaching initiatives on how to best support diverse and distance learners including students whose first languages in not English and students from a variety of backgrounds and disciplines, encouraging inclusivity.

Within blended, hybrid, online teaching best practises Dr Radenkovic has been employing both synchronous and asynchronous teaching focusing on learning objectives via interactive pages and supporting material to enable student centred agile delivery her modules that is better for listeners and aligned with learning goals.

As Team Lead for Systems, Networks and Security she heads the transition from School of Computer Science to the College of Science of Engineering.

Dr Radenkovic proposed and defined new modules in the areas for computer networks and security and taught over ten modules, some of them largest within the School (more specifically security and networks modules which are within her core research interest), and typically maintained higher than average SET/SEM scores.

Dr Radenkovic recently proposed a Master Class on Advanced Intelligent Computer Network Services and Security for Terrestrial and Interplanetary Contexts to be delivered via StudyIn.

Dr Radenkovic has been Invited Visiting Professor to international institutions such as OTH Regensburg Germany (2016-present) and University of Valencia, Spain (2016-present) to design and deliver Masters courses in Advanced Computer Networks and full Professor at AlfaBK (2008-present).

Over the past 17 years, Dr Radenkovic has been delivering effective teaching, assessment and feedback through face-to-face lectures, recorded lectures, online lectures, mixed mode lectures. Dr Radenkovic has been using a variety of tools such as Adobe Connect, Cisco WebEx, Moodle, MS Teams, quizzes, ROGO, Google classroom, Zoom, Universal capture Echo 360, Recorded/Narrated PowerPoint slides and Slido.

The main research interests of Dr Radenkovic include the areas of advanced internet services, internet technologies, economies and policies, intelligent mobile networks, cyber-security and privacy, deep artificial intelligence, dynamic geographic-spatial-time complex graphs, self-organized distributed security and privacy, distributed predictive analytics with applications for autonomous vehicles, drones, submarines and IoT, mobile social networks, mobile edge clouds, smart self-contained cyber-physical systems, remote sensing, image processing and analysis, big data oceanography, coastal and environment telemetry. Dr Milena Radenkovic received several research grants from EPSRC, EU and industry and published over 100 papers at top conferences and journals such as Elsevier Ad Hoc Networks, IEEE Transactions on Industrial Informatics, IEEE Transactions on Vehicular Technologies, IEEE Transactions on Parallel and Distributed Systems, IEEE Multimedia, ACM Multimedia, IEEE Selected Topics in Applied Earth Observations and Remote Sensing, Elsevier Pattern Recognition.

Dr Radenkovic was among the first scientists in the world who worked on Voice over Internet Technology, which made the Internet telephony system possible, and her Doctorate on the topic was internationally patented. Her research in the field of Mobile Ad-hoc internet protocols, Delay, Disruption and Disconnection Tolerant Network was among the first in the world to receive funding from EPSRC, UK and later enabled multiple standards and protocols used for the interplanetary internet, communications in disaster affected areas, emergency teams communications, smart manufacturing, self-organizing machines and robots, oceanic-satellite internet.

Dr Radenkovic is interested in numerous open research questions such as energy efficiency improvements, designing new and efficient energy distribution and data routing, and new adaptive security and privacy techniques for data transmission in challenging environments.

Dr Radenkovic led multiple PhD students to successful completion, more than 100 Masters theses, and currently supervises several PhD students.
As Athena SWAN Coordinator for the School of Computer Science and member of the University EDI committee Dr Radenkovic contributed to the University strategic planning and policy development on equality and diversity and led the School of Computer Science to receiving the Athena Swan Bronze award.

Milena Radenkovic has been the Principle and Co-Investigator of four relevant EPSRC and EU funded projects with budget exceeding £10 million. In particular, she led the EPSRC project on “A Novel Routing Protocol for Large Scale Disconnected Environments” and the EU FP7 project “SelSus: Health Monitoring and Life-Long Capability Management for SELf-SUStaining”. Dr. Radenkovic has been a Co-Investigator of a EPSRC project “Participate: Pervasive Computing for Mass Participation in Environmental Monitoring” and the PI of a spin off grant from EPSRC project “myGRid” Directly Supporting the E-Scientist.

As part of the management responsibilities for the research projects she has successfully planned and executed efficient delivery of each WP and ensuring coordination and integration between WP’s, recruited and managed research associates, ensured correct technical and financial accounting and reporting, completion of the project

on time and within budget, took necessary actions when required and informed and communicated with stakeholders.
She has been in charge of the dissemination, exploitation and standardization of the projects she led.
Dr Radenkovic has led the Athena Swan Computer Science team since 2014 and has submitted a Bronze Award Application that was awarded in 2017.

Education:

- Fellow of the Higher Education Academy (HEA), 2013
- Postgraduate Certificate in Higher Education – Masters level teaching qualification, 2005
- Member of Associate College for EPSRC
- **PhD**, (1998-2002) "Scaleable Audio for Collaborative Environments", Computer Science, University of Nottingham, 2002
- **Dipl.-Ing.** (1992-1998) (BSci and MSc in Electrical and Electronic Engineering), 1998, University of Nis, Serbia, 9.98/10/00
- **BA** (1993-1997) Computer Science, American University in Bulgaria, Magna Cum Laude, full scholarship awarded by George Soros Open Society Foundation

Employment History:

2003 - present	Lecturer, School of Computer Science, University of Nottingham, UK
2008 - present	Professor in Computer Science, Alfa BK University, Belgrade, Serbia
2016 - present	Invited Visiting Professor at OTH Regensburg Germany to Masters Course on "Advanced Computer Networks"
2016 - present	Invited Visiting Professor at the University of Valencia, Spain Masters Course on "Advanced Computer Networks"
2014 - present	Advanced Higher Education Athena SWAN Chair
2016 - present	Equality, Diversity and Inclusion Vice Chair
2005 - present	Vice Chair, Panel Member, Independent Expert, Evaluator HORIZON 2020, FP7, FP6 EU Framework Programme for Research and Innovation
2005 - present	Referee for EPSRC (Engineering Physical Sciences Research Council) in the UK
2012 - present	Consultant, EarlyMorning
2000 - present	Consultant, Netico Group
2014 - present	Microsoft Visiting Researcher, Cambridge, UK
2015 – 2016	ERASMUS Professor at the University of Coruna, Spain, "Computer Networks, Security and Privacy", Masters course

2001 - 2003 Research Postdoc Fellow, School of Computer Science, University of Nottingham, UK

Expert Evaluator for the Following Research Councils:

- Referee for EPSRC (Engineering Physical Sciences Research Council) in the UK
- Expert, Vice Chair, Evaluator and Rapporteur for the European Commission FP7, Horizon 2020, MSCA, Pathfinder
- External Evaluator for the Irish National Framework of Qualification (NFQ) for Higher Education, Ireland
- Expert Evaluator for the National Science Centre, Poland
- Expert on PreSelection Committee for Sorbonne University AI, France

Invited Professional Service for the European Commission (EC):

Dr Radenkovic has been a Vice Chair, Panel Member, Expert Evaluator, and Rapporteur for over 10 EU Calls for FP7 and Horizon 2020 Programmes since 2010 including Marie Sklodowska Curie Actions

- 2025 Vice-Chair for EC European Innovation Council (EIC) Horizon Pathfinder Open
- 2023 Vice-Chair for EC European Innovation Council (EIC) Horizon Pathfinder Open
- 2022 Vice-Chair for EC European Innovation Council (EIC) Horizon Transition Open
- 2021 Vice-Chair for EC European Innovation Council (EIC) Horizon Pathfinder Open
- 2020 Vice-Chair for EC Horizon Future and Emerging Technologies (FET) Open
- 2020 Evaluator for EC Horizon Marie Sklodowska Curie Actions Innovative Training Networks (MSCA-ITN)
- 2019 Vice-Chair for EC Horizon Future and Emerging Technologies (FET) Open
- 2019 Evaluator for EC Horizon Marie Sklodowska Curie Actions Innovative Training Networks (MSCA-ITN)
- 2018 Vice-Chair for EC Horizon Future and Emerging Technologies (FET) Open
- 2016 Vice-Chair for EC Horizon Future and Emerging Technologies (FET) Open
- 2016 Evaluator for EC Horizon Marie Sklodowska Curie Actions Innovative Training Networks (MSCA-ITN)
- 2015 Vice-Chair for EC Horizon Future and Emerging Technologies (FET) Open
- 2014 Vice Chair for EC Horizon Marie Sklodowska Curie Actions Innovative Training Networks (MSCA-ITN)
- 2014 Vice Chair for EC European Innovation Council (EIC) Horizon Pathfinder Open
- 2013 Rapporteur, Shadow and Challenger at the Panel evaluation EC European Innovation Council (EIC) Horizon Pathfinder Open
- 2013 Remote Evaluator for EC European Innovation Council (EIC) Horizon Pathfinder Open
- 2013 Remote evaluator EC XTRACT programme
- 2012 Remote Evaluator for EC FET-Open

- 2012 Rapporteur, Shadow and Challenger at the Panel evaluation EC European Innovation Council (EIC) Horizon Pathfinder Open
- 2012 Remote Evaluator for the EC FET and EC- FET-SME-Open
- 2012 Panel member for EC FET SME Open
- 2011 Rapporteur, Shadow and Challenger at the Panel evaluation EC European Innovation Council (EIC) Horizon Pathfinder Open
- 2011 Remote Evaluator for the EC FET and EC- FET-SME-Open
- 2010 Rapporteur, Shadow and Challenger at the Panel evaluation EC European Innovation Council (EIC) Horizon Pathfinder Open
- 2010 Remote Evaluator for EC European Innovation Council (EIC) Horizon Pathfinder Open

Research Awards and Collaborations

Title: **"Improving scaling of cloud applications by using novel automated provisioning and load balancing techniques."**
Funding Body: EPSRC, InnovateUK.
PI: Milena Radenkovic (University of Nottingham)
Awarded: 2020 – 2023
Partners: GTT Communications

Dr Radenkovic have defined, proposed and obtained funding to investigate how combining software defined networks approach with cloud services would improve scaling of cloud applications by using automatic provisioning and load balancing techniques. This project aims to move towards in-network application controlled load balancing by exploiting the SDN principles on cloud data centres. The research aims to explore the trade-off of auto-scaling mechanisms embedded into the application logic on microservice architectures using SDN principles on the context of cloud data centres. It specifically utilises application controlled load balancing in order to optimise application performance in the network.

Dr Radenkovic established strong links with Philips: Genome Informatics at Philips, Healthcare Informatics Solutions and Services and Global Patient monitoring. They expressed their standing commitment and supported a recently submitted EPSRC proposal.

Dr Radenkovic established collaboration with the University of Qingdao and hosted a visiting researcher. Based her geo-spatial-temporal networks and graphs they have co-authored multiple papers on Smart Oceans. This research was adopted by the School 3rd, 4th and MSc students in terms of satellite, ocean and space data and algorithms that helped and enhanced their projects.

Title: **"SelSus: Health Monitoring and Life-Long Capability 7Management for SELf-SUStaining Manufacturing Systems"**
Funding Body: EU FP7
PI: Milena Radenkovic (University of Nottingham)
Awarded: 2014 – 2017
Partners: Fraunhofer-Gesellschaft fur Foerderung der Angewandten Forschung E.V, Harms & Wende Gmbh & Co KG, Electrolux Italia S.P.A., University of Loghborough, University of Nottingham, The Manufecturing Technology Centre Limited LBG,GMX,IPA,ELUX,IS GMBH, Ford Motor Company Limited, Instituto de Sistemas e Robotica-Associacao, Advanced data processing GmbH, IEF Werner GMBH, Xetics GMBH

Dr Radenkovic has defined, proposed and obtained funding to create a new paradigm for self-diagnosis and self-awareness of distributed edge sensing clouds (IIoT) to support self-healing production systems, smart manufacturing edges and systems with embedded intelligence for data capture and intelligent processing maximise the performance of various smart equipment within assembly lines and stations over longer life times through highly targeted and timely repair, renovation and up-grading. A range of distributed diagnostic and predictive repair and renovation models and algorithms are embedded into smart devices to early prognosis failure modes and component degradations. These data can provide extremely useful information that may be used to predict system failure, effectively schedule maintenance and optimise the efficient usage of energy. The key benefit of the distributed approach to data analysis and verification is that it ensures the system to be easily scalable, easily adaptable, and suitable for use in a modern assembly system. The ability of nodes to collaborate

is exploited to allow distributed data fusion to be performed within the network. This results in sensor nodes that make smart informed decisions about when significant events have occurred, and ensure only relevant data is sent back to a central database for analysis. Through collaboration smart nodes are able to self-check to provide data confidence, and eliminating false alarms or to highlight sensor errors. The information provided by the sensor cloud is readily available to the user through a process-integrated user interface to support the maintenance engineers with instant documentation and assisted diagnostics.

Title: **"Self-organised adaptive distributed security and privacy"**
Funding Body: EPSRC
PI: Milena Radenkovic (University of Nottingham)
Awarded: 2010 - 2018

Dr Radenkovic has defined, proposed and obtained funding for research strands on novel self-organised intelligent security, user privacy and anonymity in mobile social networks and location privacy in vehicular networks. This research proposed the integration of complex temporal networks, mobile social and vehicular networks, fully distributed reputation algorithms with opportunistic and disconnection tolerant networks to tackle varying patterns of attacking nodes. A range of novel edge multilayer distributed predictive analytics metrics and ML algorithms (such as Markov Chains, Reinforcement Learning) have been proposed and demonstrated in real time with real world multi layer traces (network connectivity and user interests) to show the effectiveness of new adaptive anonymity algorithms for in the face of varying patterns of malicious nodes. The traces involved a range of connectivity, mobility and user traces such as Brazil bus traces, Spanish Oviedo traces, San Francisco and Rome taxi traces as well as Foursquare, Facebook, Youtube, Twitter, Nottingham user traces.

Title: **"Improving connectivity of digital services at the Festival of Avignon"**
Funding Body: EPSRC Impact Exploration Grant
PI: Milena Radenkovic (University of Nottingham)
Awarded: 2013 – 2014
Partners: Festival of Avignon, University of Avignon

Dr Radenkovic has defined, proposed and obtained funding for the Impact Exploration Grant to explore the impact of disconnection tolerant mobile social opportunistic networks in the context of large festivals such as Festival of Avignon. Together with the "On and Off" Festival of Avignon organisers, the project have captured complex user and network requirements and proposed distributed predictive and adaptive congestion and disconnection aware multi layer services aware of dynamically changing user interests, varying popularity of different performances and network connectivity dynamics to improve the experience of both the users and the artists.

Title: **Novel Routing Protocol for Large Scale Disconnected environments"**
Funding Body: EPSRC
PI: Milena Radenkovic (University of Nottingham)
Awarded: February 2006 until 2011

Dr Radenkovic has defined, proposed and obtained funding for the project that explored how to provide, build, and test, intelligent routing protocols for adaptive mobile ad hoc and disconnection tolerant networks in large scale mobile environments. This project envisaged a converged system architecture of intelligent real time

communications and computing and proposed multi layer, multi faceted and multi natured networks. This involves combining very large scale MANET and VANET routing approaches with newly emerging DTN approaches and user applications (such as social, emergency, healthcare, industry). This project proposed complex social temporal multi layer complex socio geo temporal networks and services including a range of novel real time fully distributed multi dimensional multi layer predictive analytics, heuristics, utility theory Markov Chains, Deep Reinforcement Learning and Q-learning algorithms to enable effective edge collaboration and services. The project used a range of various connectivity, mobility and user data traces such as Paris, Rome, San Francisco, St Andrews, MIT, Manhattan, Facebook, Foursqare, Youtube, Twitter to demonstrate the high effectiveness and accuracy while enabling low latency and cost of our approaches

Title: **"Bridging the Gap – Visiting Scholar Program"**
Industrial Links: Motorola, New York, USA
Funding Body: EPSRC
PI: Milena Radenkovic (University of Nottingham)
Awarded: 2008 -2009
Partners: Motorola

As part of this grant, Distinguished Researcher from Motorola/Google New York has visited Nottingham and gave talks that were combined with the talks by Milena Radenkovic and meetings with different academic and research staff from the School of Computer Science and Faculty of Engineering to identify new challenges for industrial application of computer vision and distributed multimedia capture and analysis.

Title: **"Developing Advanced Collaborative Environments for Life Science Community" -- "Energy-efficient large scale animal monitoring"**
Funding Body: EPSRC myGRid – off spin grant
Funding Body: EPSRC
PI: Milena Radenkovic (University of Nottingham)
Awarded: 2004-2007

Dr Radenkovic has defined, proposed and obtained funding for the project to explore and propose novel energy efficient mobile ad hoc networking approach for large scale continuous cattle monitoring and distributed real-time multi layer predictive analytics of animal connectivity patterns and biosensor data. The project identified that there is the urgent need for prediction and detection of animal diseases (such as infectious foot-and-mouth and mad caws disease) and efficiency of pastures are key requirements in the farming industry.

The project proposed a novel energy aware large scale P2P DTN MANETs multi layer architecture deployed on the animals to allow end node heterogeneous data capturing, storing, processing, predicting and communicating rich real time and historical data to support contact tracing, remote and in-situ multi dimensional range queries and issuing notifications about newly detected events. The project proposed a range of novel predictive fully distributed multi layer algorithms for both contacts and heterogeneous biosensor data real time analytics, trend and dynamic classification analysis capable of answering in-situ queries while handling while minimizing and balancing energy utilisation, disconnections and avoiding congestion.

Title:	**"PARTICIPATE"**
Funding Body:	EPSRC
PI:	Steve Benford (University of Nottingham)
CI:	Milena Radenkovic, D. Stanton (University of Bath)
Awarded:	February 2006-2010
Partners:	British Telecom, Microsoft, BBC, University of Bath

Participate aimed to explore how pervasive computing can support mass participatory campaigns in which millions of people gather and share information about their local environments, contributing to a national picture of broad environmental issues, raising awareness, and encouraging debate and democracy.

Dr Radenkovic proposed and defined new models and protocols for mobile multi layer real time P2P architecture for very large-scale pervasive heterogeneous sensor data capture, storing, processing and querying while supporting distributed query of partially defined data (eg. range queries), and extending the protocols to account for situations in which both sensors and users may have intermittent connectivity.

Journal Publications

Qikai Zhou, Baoxiang Huang, He Gao**, Milena Radenkovic**, Ge Chen, "Optical Remote Sensing Image Super-Resolution via Adaptive High-Pass Filtering and Window Attention Mechanism", IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2026, doi: https://doi.org/10.1109/JSTARS.2026.3697187

V Ayu, **M Radenkovic**, Next Generation Intelligent Mobile Edge Networks for Improving Service Provisioning in Indonesian Festivals, Journal of Sensor and Actuator Networks 15 (1), 19, 2026

S Wang, B Huang, **M Radenkovic**, G Chen , Whale Identification and Size Estimation in Satellite Imagery via Intelligent Subtle Perception, Expert Systems with Applications, 130778, 2025

Y Wang, B Huang, **M Radenkovic**, W Kan, X Zhang, G Chen, Long-Term Forecasting of Long-Lived Oceanic Eddies Using an Improved Informer Framework, IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2025

Kan W., Huang B., **Radenkovic M**., Zhang X., Chen G., Mesoscale Westward Eddy Trajectory Prediction with Memory Augmented Neural Network, (2025) IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 18, pp. 1422 - 1434, DOI: 10.1109/JSTARS.2024.3502676, **FWCI 3.85**

Hamdi M.M.F., Chen Z., **Radenkovic M**., Mitigating Cache Pollution Attack Using Deep Learning in Named Data Networking (NDN), (2024) Lecture Notes in Networks and Systems, 1017 LNNS, pp. 432 - 442, DOI: 10.1007/978-3-031-62277-9_28, **FWCI 2.41**

Gao H., Huang B., Chen G., Xia L., **Radenkovic M.** , Deep learning solver unites SDGSAT-1 observations and Navier–Stokes theory for oceanic vortex streets, (2024) Remote Sensing of Environment, 315, art. no. 114425, DOI: 10.1016/j.rse.2024.114425, **FWCI 3.27**

Xinmin Zhang, Baoxiang Huang, Ge Chen, Linyao Ge, **Milena Radenkovic**, Guojia Hou, Global Oceanic Mesoscale Eddies Trajectories Prediction With Knowledge-Fused Neural Network. IEEE Trans. Geosci. Remote. Sens. 62: 1-14, 2024, **FWCI 2.73**

Yongjun Yu, Baoxiang Huang, **Milena Radenkovic**, Tingting Wang, Ge Chen, Intelligent Sparse2Dense Profile Reconstruction for Predicting Global Subsurface Chlorophyll Maxima. IEEE Trans. Geosci. Remote. Sens. 62: 1-13, 2024, **FWCI 1.09**

Junmin Geng, He Gao, Baoxiang Huang, **Milena Radenkovic**, Ge Chen, ARU2-Net: A Deep Learning Approach for Global-Scale Oceanic Eddy Detection. IEEE J. Sel. Top. Appl. Earth Obs. Remote. Sens. 17: 11997-12007, 2024

B Huang, G Chen, H Zhang, G Hou, **M Radenkovic**, Instant deep sea debris detection for maneuverable underwater machines to build sustainable ocean using deep neural network, Science of The Total Environment, 2023, **FWCI 2.16**

Chen, Ge; Huang, Baoxiang; Yang, Jie; **Radenkovic, Milena**; Ge, Linyao; Cao, Chuanchuan; Chen, Xiaoyan; Xia, Linghui; Han, Guiyan; Ma, Ying, "Deep blue artificial intelligence for knowledge discovery of the intermediate ocean",Frontiers in Marine Science, 2023

Zhao, Nan; Huang, Baoxiang; Yang, Jie; **Radenkovic, Milena**; Chen, Ge, "Oceanic Eddy Identification Using Pyramid Split Attention U-Net With Remote Sensing Imagery", IEEE Geoscience and Remote Sensing Letters 20, 2023, **FWCI 3.29**

Ao Wang, Baoxiang Huang, Jie Yang, Ge Chen, **Milena Radenkovic**: SCMNet: Toward Subsurface Chlorophyll Maxima Prediction Using Embeddings and Bi-GRU Network. IEEE J. Sel. Top. Appl. Earth Obs. Remote. Sens. 16: 9944-9950 (2023)

Xiaoya Zhang, Baoxiang Huang, Ge Chen, **Milena Radenkovic**, Guojia Hou:, WildFishNet: Open Set Wild Fish Recognition Deep Neural Network With Fusion Activation Pattern. IEEE J. Sel. Top. Appl. Earth Obs. Remote. Sens. 16: 7303-7314 (2023), **FWCI 1.13**

H. Zhang, B. Huang, G. Chen, L. Ge and **M. Radenkovic**, "An Efficient Oceanic Eddy Identification Method With XBT Data Using Transformer," in IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, doi: 10.1109/JSTARS.2022.3221113.

Ge Chen, Baoxiang Huang, Xiaoyan Chen, Linyao Ge, **Milena Radenkovic**, Ying Ma, Deep blue AI: A new bridge from data to knowledge for the ocean science, Deep Sea Research Part I: Oceanographic Research Papers, Volume 190, 2022, 103886, ISSN 0967-0637, https://doi.org/10.1016/j.dsr.2022.103886

B. Huang, Z. Wang, J. Shang, G. Chen and **M. Radenkovic**, "A Spectral Sequence-Based Nonlocal Long Short-Term Memory Network for Hyperspectral Imagery Classification," in IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, doi: 10.1109/JSTARS.2022.3159729., **FWCI 1.13**

Callum Brocklehurst, **Milena Radenkovic**: Resistance to Cybersecurity Attacks in a Novel Network for Autonomous Vehicles. J. Sens. Actuator Networks 11(3): 35 (2022)

Baoxiang Huang, Linyao Ge, Ge Chen**, Milena Radenkovic**, Xiaopeng Wang, Jinming Duan, Zhenkuan Pan: Nonlocal graph theory based transductive learning for hyperspectral image classification. Pattern Recognit. 116: 107967 (2021), **FWCI 2.05**

Joyce Hoese Addae, Xu Sun, Dave Towey, **Milena Radenkovic**: Exploring user behavioral data for adaptive cybersecurity. User Model. User Adapt. Interact. 29(3): 701-750 (2019)

M. Radenkovic, V. S. H. Huynh and P. Manzoni, "Adaptive Real-time Predictive Collaborative Content Discovery and Retrieval in Mobile Disconnection Prone Networks," in IEEE Accessin IEEE Access, vol. 6, pp. 32188-32206, 2018. doi: 10.1109/ACCESS.2018.2840040

M. H. Rehmani, M. Reisslein, A. Rachedi, M. Erol-Kantarci and **M. Radenkovic**, "Integrating Renewable Energy Resources into the Smart Grid: Recent Developments in Information and Communication Technologies," in IEEE Transactions on Industrial Informatics. doi: 10.1109/TII.2018.2819169

M. Husain Rehmani, M. Reisslein, A. Rachedi, M. Erol-Kantarci and **M. Radenkovic**, "Guest Editorial Special Section on Smart Grid and Renewable Energy Resources: Information and Communication Technologies With Industry Perspective," in IEEE Transactions on Industrial Informatics, vol. 13, no. 6, pp. 3119-3123, Dec. 2017. doi: 10.1109/TII.2017.2756625

Joyce Hoese Addae, Michael Brown, Xu Sun, Dave Towey, **Milena Radenkovic**, (2017) "Measuring attitude towards personal data for adaptive cybersecurity", Information and Computer Security, Vol. 25 Issue: 5, pp.560-579, https://doi.org/10.1108/ICS-11-2016-0085

Abderrahim Benslimane, Hassnaa Moustafa, Ying-Dar Lin, **Milena Radenkovic**: Guest Editorial: IoT: Protocol Stack, Cross-Layer, and Power Consumption Issues. IEEE Wireless Commun. 24(3): 8-9 (2017)

M. Radenkovic; J. Crowcroft; M. H. Rehmani, "Towards Low Cost Prototyping of Mobile Opportunistic Disconnection Tolerant Networks and Systems," in IEEE Access , 2016, vol.PP, no.99, pp.1-1 doi:10.1109/ACCESS.2016.2606501

Radenkovic, M., Cognitive Privacy for Personal Clouds, Mobile Information Systems, vol. 2016, Article ID 7107103, 17 pages, 2016. doi:10.1155/2016/7107103

Mubashir Husain Rehmani, Ejaz Ahmed, Samee U. Khan, **Milena Radenkovic**: IEEE Access Special Section Editorial: Body Area Networks For Interdisciplinary Research. IEEE Access 4: 2989-2992 (2016)

Mubashir Husain Rehmani, Abderrezak Rachedi, Melike Erol-Kantarci, **Milena Radenkovic**, Martin Reisslein: Cognitive radio based smart grid: The future of the traditional electrical grid. As Hoc Networks 41: 1-4 (2016)

Radenkovic, M.; Benslimane, A.; McAuley, D., "Reputation Aware Obfuscation for Mobile Opportunistic Networks," Parallel and Distributed Systems, IEEE Transactions on , 2015, vol.PP, no.99, pp.1,1 doi: 10.1109/TPDS.2013.265

Benslimane, A.; **Radenkovic, M.**; Zakhary, S., "Efficient Location Privacy-Aware Forwarding in Opportunistic Mobile Networks," Vehicular Technology, IEEE Transactions on , 2014, vol.PP, no.99, pp.1,1, 0 doi: 10.1109/TVT.2013.2279671

Milena Radenkovic, Andrew Grundy, Efficient and adaptive congestion control for heterogeneous delay-tolerant networks, Ad Hoc Networks, Volume 10, Issue 7, September 2012, Pages 1322-1345, ISSN 1570-8705, doi: 10.1016/j.adhoc.2012.03.013 (Acceptance rate 7%-23%)

M. Radenkovic and T. Lodge, "Engaging the public through mass-scale multimedia networks," in IEEE MultiMedia, vol. 13, no. 3, pp. 12-15, July-Sept. 2006., doi: 10.1109/MMUL.2006.51

M. Radenkovic, "Novel infrastructures for supporting mixed-reality experiences," in IEEE MultiMedia, vol. 12, no. 2, pp. 12-19, April-June 2005., doi: 10.1109/MMUL.2005.35

Milena Radenkovic and Igor Miladinovic. 2004. Towards peer-to-peer access grid. In Proceedings of the First international conference on Scientific Applications of Grid Computing (SAG'04), Springer-Verlag, Berlin, Heidelberg, 134-145., doi: 10.1007/11423287_12

Milena Radenkovic. 2004. A Framework for Building and Deploying the Multiparty Audio Service for Collaborative Environments. Presence: Teleoper. Virtual Environ. 13, 6 (December 2004), 708-725., doi: 10.1162/1054746043280628

Conference Publications

V Ayu, M Radenkovic, Enabling Intelligent Mobile Edge Communication Networks to Support Future Services in Indonesian Festivals ,2025 IEEE 7th PhD Colloquium on Emerging Domain Innovation and Technology for Society.

V. S. H. Huynh, M. Radenkovic and N. Wang, "Distributed Spatial-Temporal Demand and Topology Aware Resource Provisioning for Edge Cloud Services," 2021 Sixth International Conference on Fog and Mobile Edge Computing (FMEC), 2021, pp. 1-8, doi: 10.1109/FMEC54266.2021.9732562.

Milena Radenkovic, Vu San Ha Huynh: Cognitive Caching at the Edges for Mobile Social Community Networks: A Multi-Agent Deep Reinforcement Learning Approach. IEEE Access 8: 179561-179574 (2020)

Minjie Lyu, Milena Radenkovic, Derin B. Keskin, Vladimir Brusic: Classification of Single Cell Types During Leukemia Therapy using Artificial Neural Networks. BIBM 2020: 1258-1261

Milena Radenkovic, Vu San Ha Huynh: Energy-Aware Opportunistic Charging and Energy Distribution for Sustainable Vehicular Edge and Fog Networks, 5th IEEE International Conference on Fog and Mobile Edge Computing (FMEC 2020), Paris, France, April 20-23, 2020

Vu San Ha Huynh, **Milena Radenkovic**: Leveraging Social Behaviour of Users Mobility and Interests for Improving QoS and Energy Efficiency of Content Services in Mobile Community Edge-clouds. CLOSER 2020: 382-389

Vu San Ha Huynh, **Milena Radenkovic**: Interdependent Multi-layer Spatial Temporal-based Caching in Heterogeneous Mobile Edge and Fog Networks. PECCS 2019: 34-45

Milena Radenkovic, Vu San Ha Huynh, Robert John, Pietro Manzoni: Enabling Real-time Communications and Services in Heterogeneous Networks of Drones and Vehicles. WiMob 2019: 1-6

Milena Radenkovic, Adam David Walker: Contextual Dishonest Behaviour Detection for Cognitive Adaptive Charging in Dynamic Smart Micro-Grids. WONS 2019: 44-51

Milena Radenkovic and Adam Walker. 2018. CognitiveCharge: Disconnection Tolerant Adaptive Collaborative and Predictive Vehicular Charging. In Proceedings of the 4th ACM MobiHoc Workshop on Experiences with the Design and Implementation of Smart Objects (SMARTOBJECTS '18). ACM, New York, NY, USA, Article 2, 9 pages. DOI: https://doi.org/10.1145/3213299.3213301

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Huynh, Vu San Ha and **Radenkovic, Milena** (2018) Understanding complementary multi-layer collaborative heuristics for adaptive caching in heterogeneous mobile opportunistic networks. In: The 14th International Wireless Communications and Mobile Computing Conference (IWCMC 2018), 25-29 June 2018, Limassol, Cyprus.

Huynh, Vu San Ha and **Radenkovic, Milena** and John, Robert (2018) Understanding information centric layer of adaptive collaborative caching framework in mobile disconnection-prone networks. In: 14th International Wireless Communications and Mobile Computing Conference (IWCMC 2018), 25-29 June 2018, Limassol, Cyprus.

Radenkovic, Milena and Huynh, Vu San Ha (2017) Collaborative cognitive content dissemination and query in heterogeneous mobile opportunistic networks. In: SMARTOBJECTS 2017 (3rd Workshop on Experiences with the Design and Implementation of Smart Objects), Mobicom 2017, 16-20 Oct 2017, Snowbird, Utah, USA

Vu San Ha Huynh and **Milena Radenkovic**, 2017. A Novel Cross-layer Framework for Large Scale Emergency Communications In: 2017 IEEE International Wireless Communications and MobileComputing Conference (IWCMC). (In Press), Valancia, Spain.

Adam Walker and **Milena Radenkovic**, 2017. GPSR-TARS: Congestion Aware Geographically Targeted Remote Surveillance for VANETs In: 2017 IEEE International Conference on Selected Topics in Mobile and Wireless Networking (MoWNeT), (In Press) Avignon France)

M. Radenkovic and V. S. H. Huynh, "Low-cost mobile personal clouds," 2016 International Wireless Communications and Mobile Computing Conference (IWCMC), Paphos, Cyprus, 2016, pp. 836-841., doi: 10.1109/IWCMC.2016.7577166

J. Addae, **M. Radenkovic**, X. Sun, and D. Towey, "An Extended Perspective on Cybersecurity Education," presented at the IEEE International Conference on Teaching, Assessment and Learning for Engineering, Bangkok, Thailand, 2016.

J. Addae, **M. Radenkovic**, X. Sun, and D. Towey, "An Augmented Cybersecurity Behavioral Research Model," in 2016 IEEE 40th Annual Computer Software and Applications Conference (COMPSAC), 2016, pp. 602-603.

Milena Radenkovic and Natasa Milic-Frayling. 2015. Demo: RasPiPCloud: A Light-weight Mobile Personal Cloud. In Proceedings of the 10th ACM MobiCom Workshop on Challenged Networks (CHANTS '15). ACM, New York, NY, USA, 57-58., doi: 10.1145/2799371.2799373 http://doi.acm.org/10.1145/2799371.2799373

H. Nguyen-Minh, A. Benslimane and **M. Radenkovic**, "Social delay tolerant approach for safety services in vehicular networks," 2015 International Wireless Communications and Mobile Computing Conference (IWCMC), Dubrovnik, 2015, pp. 1199-1204., doi: 10.1109/IWCMC.2015.7289253

M. Radenkovic, I. Kostadinov and B. Wietrzyk, "Increasing communication reliability in manufacturing environments," 2015 International Wireless Communications and Mobile Computing Conference (IWCMC), Dubrovnik, 2015, pp. 1377-1383., doi: 10.1109/IWCMC.2015.7289283

Arjuna Sathiaseelan, Richard Mortier, Murray Goulden, Christian Greiffenhagen, **Milena Radenkovic**, Jon Crowcroft, and Derek McAuley. 2014. A Feasibility Study of an In-the-Wild Experimental Public Access WiFi Network. In Proceedings of the Fifth ACM Symposium on Computing for Development (ACM DEV-5 '14). ACM, New York, NY, USA, 33-42., doi: 10.1145/2674377.2674383

Milena Radenkovic, Heidi Howard, Jon Crowcroft, Murray Goulden, Christian Greiffenhagen, Derek McAuley, and Richard Mortier. 2013. Providing security for wireless community networks. In Proceedings of the 2013 ACM MobiCom workshop on Lowest cost denominator networking for universal access (LCDNet '13). ACM, New York, NY, USA, 29-32., doi: 10.1145/2502880.2502890

Radenkovic, Milena, Vaghi, Ivan, Zakhary, Sameh, Benslimane, Abderrahim, "AdaptAnon: Adaptive anonymity for service queries in mobile opportunistic networks," Communications (ICC), 2013 IEEE International Conference on , vol., no., pp.1839,1844, 9-13 June 2013 doi: 10.1109/ICC.2013.6654788

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Milena Radenkovic, Ivan Vaghi, Adaptive User Anonymity for Mobile Opportunistic Networks, CHANTS 2012, ACM MobiCom Workshop on Challenged Networks August 22, 2012, Istanbul, Turkey, doi: 10.1145/2348616.2348635

M. Radenkovic and S. Zakhary, "Flexible and dynamic network coding for adaptive data transmission in DTNs," 2012 8th International Wireless Communications and Mobile Computing Conference (IWCMC), Limassol, 2012, pp. 567-573., doi: 10.1109/IWCMC.2012.6314266 (Acceptance Rate ~25%)

S. Zakhary and **M. Radenkovic**, "Utilizing social links for location privacy in opportunistic delay-tolerant networks," 2012 IEEE International Conference on Communications (ICC), Ottawa, ON, 2012, pp. 1059-1063., doi: 10.1109/ICC.2012.6364413

M. Radenkovic and A. Grundy, "Framework for utility driven congestion control in delay tolerant opportunistic networks," 2011 7th International Wireless Communications and Mobile Computing Conference, Istanbul, 2011, pp. 448-454., doi: 10.1109/IWCMC.2011.5982575

S. Zakhary and **M. Radenkovic**, "Erasure coding with replication to defend against malicious attacks in DTN," 2011 IEEE 7th International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob), Wuhan, 2011, pp. 357-364., doi: 10.1109/WiMOB.2011.6085375

M. Radenkovic and A. Grundy, "Congestion aware forwarding in delay tolerant and social opportunistic networks," Wireless On-Demand Network Systems and Services (WONS), 2011 Eighth International Conference on, Bardonecchia, 2011, pp. 60-67., doi: 10.1109/WONS.2011.5720201

Milena Radenkovic and Andrew Grundy. 2010. Congestion aware data dissemination in social opportunistic networks. SIGMOBILE Mob. Comput. Commun. Rev. 14, 3 (December 2010), 31-33. doi: 10.1145/1923641.1923653

A. Grundy and **M. Radenkovic**, "Promoting congestion control in opportunistic networks," 2010 IEEE 6th International Conference on Wireless and Mobile Computing, Networking and Communications, Niagara Falls, ON, 2010, pp. 324-330., doi: 10.1109/WIMOB.2010.5645048

S. R. Zakhary and M. Radenkovic, "Reputation-based security protocol for MANETs in highly mobile disconnection-prone environments," Wireless On-demand Network Systems and Services (WONS), 2010 Seventh International Conference on, Kranjska Gora, 2010, pp. 161-167., doi: 10.1109/WONS.2010.5437117 (acceptance rate 25%)

A. Grundy and **M. Radenkovic**, "Decongesting opportunistic social-based forwarding," Wireless On-demand Network Systems and Services (WONS), 2010 Seventh International Conference on, Kranjska Gora, 2010, pp. 82-85., doi: 10.1109/WONS.2010.5437129 (acceptance rate 25%)

A. Grundy and **M. Radenkovic**, "Routing in Wireless Networks of Varying Connectivity," Wireless and Mobile Communications, 2009. ICWMC '09. Fifth International Conference on, Cannes, La Bocca, 2009, pp. 18-23., doi: 10.1109/ICWMC.2009.11

B. Wietrzyk and **M. Radenkovic**, "Enabling Large Scale Ad Hoc Animal Welfare Monitoring," Wireless and Mobile Communications, 2009. ICWMC '09. Fifth International Conference on, Cannes, 2009, pp. 401-409., doi: 10.1109/ICWMC.2009.74

B. Wietrzyk, **M. Radenkovic** and I. Kostadinov, "Practical MANETs for Pervasive Cattle Monitoring," Networking, 2008. ICN 2008. Seventh International Conference on, Cancun, 2008, pp. 14-23., doi: 10.1109/ICN.2008.78

B. Wietrzyk and **M. Radenkovic**, "Energy Efficiency in the Mobile Ad Hoc Networking Approach to Monitoring Farm Animals," Networking, 2007. ICN '07. Sixth International Conference on, Martinique, 2007, pp. 1-1., doi: 10.1109/ICN.2007.42

B. Wietrzyk and **M. Radenkovic**, "Enabling rapid and cost-effective creation of massive pervasive games in very unstable environments," 2007 Fourth Annual Conference on Wireless on Demand Network Systems and Services, Oberguyrgl, 2007, pp. 146-153., doi: 10.1109/WONS.2007.340493 (acceptance rate 26%)

T. Lodge and **M. Radenkovic**, "Towards Mass Scale Environmental Monitoring By the Public", Proceedings of the IASTED European Conference on Internet and Multimedia Systems and Applications, EuroIMSA 2007, Chamonix, France, 2007, pp 69-74

M. Radenkovic and B. Wietrzyk, "Mobile Ad Hoc Networking Approach to Detecting and Querying Events Related to Farm Animals," International conference on Networking and Services (ICNS'06), Slicon Valley, CA, 2006, pp. 109-109., doi: 10.1109/ICNS.2006.74

Radenkovic M., Wietrzyk B., "Wireless Mobile Ad-hoc Sensor Networks for Very Large Scale Cattle Monitoring", in Proceedings of in 6th International Workshop on Applications and Services in Wireless Networks, (ASWN'06) Berlin, Germany, 2006, pp

B. Wietrzyk and **M. Radenkovic**, "Semantic Life Science Middleware with Web Service Resource Framework", In Proc. of Fourth All Hands Meeting, Nottingham, UK, 2005, pp. 542-545.

M. Radenkovic and B. Wietrzyk, "Life Science Grid Middleware in A More Dynamic Environment", In Proc. of Grid Computing and its Application to Data Analysis (GADA'05), Ayia Napa, Cyprus, 2005, LNCS, pp 264-273, doi: 10.1007/11575863_46

Milena Radenkovic, Chris Greenhalgh, and Steve Benford. 2002. Deployment issues for multi-user audio support in CVEs. In Proceedings of the ACM symposium on Virtual reality software and technology (VRST '02). ACM, New York, NY, USA, 179-185. , doi: 10.1145/585740.585770

Milena Radenkovic and Chris Greenhalgh. 2002. Multi-party distributed audio service with TCP fairness. In Proceedings of the tenth ACM international conference on Multimedia (MULTIMEDIA '02). ACM, New York, NY, USA, 11-20., doi: 10.1145/641007.641010

Mauricio Capra, **Milena Radenkovic**, Steve Benford, Leif Oppermann, Adam Drozd, and Martin Flintham. 2005. The multimedia challenges raised by pervasive games. In Proceedings of the 13th annual ACM international conference on Multimedia (MULTIMEDIA '05). ACM, New York, NY, USA, 89-95., doi: 10.1145/1101149.1101163

L. Moreau et al., "On the use of agents in a BioInformatics grid," Cluster Computing and the Grid, 2003. Proceedings. CCGrid 2003. 3rd IEEE/ACM International Symposium on, 2003, pp. 653-660., doi: 10.1109/CCGRID.2003.1199429

Stevens, Robert; Glover, Kevin; Greenhalgh, Chris; Jennings, Claire; Pearce, Simon; Li, Peter**; Radenkovic, Milena**; Wipat, Anil; ",Performing in silico experiments on the Grid: a users perspective,Proc UK e-Science programme All Hands Conference,2,4,,2003

Lead PhD supervisor:

MM Fishol Hamdi	PhD Thesis Title “Using Deep Learning for Enhancing Security in Named Data Networks”, 2023 - ongoing
Vittalis Ayu	PhD Thesis Title “Next Generation Crowd Sensing Mobile Edge Services for Indonesian Festivals”, 2023 - ongoing
Vu San Ha Huynh	PhD Thesis Title: “Multilayer Content Services in Heterogeneous Mobile Opportunistic Networks”, 2016 - 2020
Adam Walker	PhD Thesis Title “Resource-Aware Trust-Based Security for Vehicular Smart-Grid Networks”, 2017 -2023
Joyce Addae	PhD Thesis Title: “Leveraging Web Data Towards Usable Adaptive Cybersecurity”, 2015-2020
Sameh Zakhary	PhD Thesis Title: “Collaborative Location Privacy-Aware Forwarding for Opportunistic Mobile Networks”, with the University of Nottingham Ningbo, China, 2010-2015

Andy Grundy	PhD Thesis Title “Congestion Control Framework for Delay Tolerant Networks”, 2008-2012
Bartosz Wietrzyk	PhD Thesis Title: Practical Mobile Ad Hoc Networking for Large Scale Cattle Monitoring, 2004-2007

National and International PhD Examinations and Chairing:

- Elif Firat, The University of Nottingham, UK, PhD Thesis Title: "A Study of Advanced Visualization Literacy", 2022
- Guerric Chupin, The University of Nottingham, UK, PhD Thesis Title: "Efficient Implmentation of Expressive Modelling Language", 2022
- Roberto Rodriguez-Zurrunero, Universidad Politecnica de Madrid, Spain, PhD Thesis Title: Dynamic Management in Operating Systems to Improve Energy Efficiency of Resource-Constrained and Wireless Devices, 2021
- Martin Adam Thomas Handley, The University of Nottingham, UK, PhD Thesis Title “Efficiency Three Ways Tested, Verified, and Formalised”, 2020
- Wil Ward, The University of Nottingham, UK, PhD Thesis Title “Development of Machine Learning Techniques for Characterising Change in Time-Lapse Resistivity Monitoring”, 2018.
- Yuchun Ding The University of Nottingham, UK, PhD Thesis Title “Novel Methods for Automatic Analysis on Vascular Images”, 2016
- Havier Blessa, Universidad Politecnica de Madrid, Spain, defended PhD Thesis tile: “Cognitive Networks for Energy Efficient data Dissemination”, 2015
- Elena Romero, Universidad Politecnica de Madrid, Spain, PhD thesis title: Cognitive Radio Networks for Contention Minimisation Networks, 2015
- Bambang Soelistijanto, University of Surrey, UK, defended PhD Thesis with title: ”Traffic Distribution Fairness and Congestion in Social Opportunistic Networks”, 2014
- Afra Mashhadi ,UCL, defended PhD Thesis Title: “Content Dissemination in Participatory Delay Tolerant Networks”, 2011
- Paul Kiddie, The University of Birmingham, UK, defended PhD Thesis Title: “Decentralised Soft Security in Distributed Systems”, 2011

Professional Services:

List of Honours and Distinctions

- Invited expert and speaker for the CERT 2026 on incident response, in Tallinn, Estonia (full non-disclosure)
- Keynote speaker and Editor at Cyber Warfare, Security and space computing , SpacSec’24, Jaipur, India, Book of SpacSec proceedings published by Springer in 2025
- Invited expert and speaker for the CERT 2025 on incident response, in Tallinn, Estonia (full non-disclosure)
- Keynote speaker and Editor at Cyber Warfare, Security and space computing , SpacSec’21, Jaipur, India
- Invited speaker, Security in a Borderless World, Estonia, May, 2010, full non-discolsure
- Radenkovic M. “Multimedia Research – Where do we Need to Go Tomorrow”, Dagstuhl Seminar 05091, March 1-5, Germany, 2005
- Radenkovic M., “P2P MANETs – New Research Issues”, Dagstuhl Seminar 05152, April 8-12, Germany, 2005

Editorial Roles

- Editor, Second International Conference on Cyber Warfare, Security and Space Computing, SpacSec 2024, Jaipur, India, February 22–23, 2024
- Editor, Cyber Warfare, Security and Space Research, First International Conference, SpacSec 2021, Jaipur, India, December 9-10,2021
- Guest Editor for Wiley Hindawi Security and Communication Networks: Security Communication in On-Body Wearable Wireless Networks 2018, 2019.
- Associate Editor for IEEE Access since 2016
- Associate Editor for IEEE Transactions on Industrial Informatics, 2017
- Associate Editor for IEEE Transactions on Industrial Informatics Special Issue on “Smart Grid and Renewable Energy Resources: Information and Communication Technologies with Industry Perspective” 2017
- Area Editor of the Elsevier Ad Hoc Networks since 2014
- Editor of the Ad Hoc and Wireless Sensor Networks journal since 2014
- Guest Editor for IEEE Transactions on Industrial Informatics Special Issue on "Smart Grid and Renewable Energy Resources: Information and Communication Technologies with Industry Perspective" 2017
- Guest Editor on IEEE Communications Special Edition on IoT: Protocol Stack, Cross-Layer and Power Consumption Issues, 2017
- Guest Editor on Elsevier Special Issue on Cognitive Radio Based Smart Grid: The Future of the Traditional Electrical Grid, Elsevier journal, from 2015
- Guest Editor for "Body Area Networks for Interdisciplinary Research", IEEE Access, from 2015
- Guest Editor for "Smart Grids: A Hub of Interdisciplinary Research", IEEE Access, from 2015
- Guest Editor for Special Issue on Dynamic and Mobile Networking of International Journal of Ad Hoc and Mobiqutous Computing 2014
- On the Editorial Board of Journal of Mobile Multimedia since 2005
- On the Editorial Board of International Journal On Advances in Software since 2009

Chair and member of Technical Program Committees of the following conferences and workshops (selection)

- Co-Chair of IEEE WiMob 2014 of the 10th IEEE 10th International Conference on Wireless and Mobile Computing, Networking and Communications, 8010 October, Larnaca Cyprus 2014
- Co-Chair of Third IEEE International Conference on Selected Topics in Mobile & Wireless Networking, August 19-21 August, Montreal Canada 2013
- Session Chair ACM Mobicom Workshop on Challenged Networks CHANTS 2012
- Conference Program Chair of The 7th IEEE International Conference on Wireless and Mobile Computing, Networking and Communications 2011, Shanghai, October 10-12, China, 2011
- Session Chair on ACM Mobicom 2010 and ACM CHANTs workshop 2010, Chicago, 2010
- Workshop Chair for The Sixth Annual International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services, 2009 Toronto, July 13-16, Canada, 2009
- Proposed and led special session “Brave New Sessions” for ACM Multimedia , Singapore, 2005
- Workshop Chair for The First Grid Computing and Its Applications to Data Analysis, GADA, Cyprus, 2004, June 18-22, 2004
- Workshop Chair for The First Scientific Applications of Grid Computing, First International Workshop, SAG 2004, Beijing, China, September 20-24, 2004

- IEEE Consumer Communications & Networking Conference (CCNC) 2021, Las Vegas, USA, 9-12 January
- IEEE Global Communications Conference, (GLOBECOM), 2020,Taipei, Taiwan, 7-11 Dec
- IEEE Consumer Communications & Networking Conference (CCNC) 2020, Las Vegas, USA, 10-13 January
- IEEE Consumer Communications & Networking Conference (CCNC) 2019, Las Vegas, USA, 11-14 January
- IEEE Global Communications Conference, (GLOBECOM), 2019, Waiholoa, HI, USA, 9-13 Dec
- IEEE International Conference on Communication, Networks and Satellite (COMNETSAT) 2018, Medan, Sumatera Utara, Indonesia, Nov 15 - Nov 17, 2018

- Smart Objects (SMARTOBJECTS '18). ACM, New York, NY, USA
- 5th EAI International Conference on Smart Objects and Technologies for Social Good (GOODTECHS), 2019, September 25-27, 2019, Valencia, Spain
- IEEE Global Communications Conference, (GLOBECOM), 2018, Abu Dhabi, 9-13 Dec
- The Seventh International Conference on Selected Topics in Mobile & Wireless Networking (MoWNet'2018), Tangier, Morocco
- SMARTOBJECTS 2017 (3rd Workshop on Experiences with the Design and Implementation of Smart Objects), Mobicom 2017, 16-20 Oct 2017, Snowbird, Utah, USA
- IEEE International Conference on Fog and Mobile Edge Computing, (FMEC) 2017, Valancia Spain, 8-11 May
- The First International joint Workshops on Fog and Mobile Edge Computing, and on Information Security and Privacy for Mobile Cloud Computing, Web and Internet of Things(FMEC/ISCW-2016), Augsburg, Germany, September 12-16, 2016
- 6th International Conference on Sensor Networks (SENSORNETS), Porto, Portugal, 19-21 February 2017
- 1st International Conference on Fog and Mobile Edge Computing, Augsburg, Germany, Sep 12-16, 2016
- 19th European Conference on the Applications of Evolutionary Computing (EvoApps) 2016
- EvoCOMNET, Porto, Portugal, 30 March - 1 April 2016
- Second International Symposium on Computer Vision and Internet (VisionNet), Kerala, India, 10-13 Aug, 2015
- Security in Ad Hoc Networks, SecAN 2014 – Springer
- ACM MobiCom Workshop on Lowest Cost Denominator Networking for Universal Access (ACM LCDNET) 2013
- 2013 IEEE 33rd International Conference on Distributed Computing Systems (ICDCS)
- 2012 IEEE 33rd International Conference on Distributed Computing Systems (ICDCS)
- 2013 IEEE Wireless Communications and Networking Conference (WCNC)
- 2009 IEEE World Congress on Computer Science and Information Engineering (CSIE 2009)
- The Ninth IASTED International Conference on Wireless and Optical Communications. (WOC 2009)
- 2008 5th IEEE International Conference on Mobile Ad Hoc and Sensor Systems
- The 14th ACM International Conference on Multimedia 2006
- The 13th ACM International Conference on Multimedia 2005
- The 12th ACM International Conference on Multimedia 2004

University and Academic Service

- Team Lead for Systems, Networks and Security transition from School of Computer Science to the College of Science of Engineering, 2023 – present
- Equality, Diversity and Inclusion (EDI) Committee Member of Faculty of Science (2016-present)
- EDI Committee Chair for School of Computer Science (2015-present)
- Athena SWAN Chair for School for Computer Science (2014-present)
- EDI Vice Chair for the School of computer Science (2016-present)
- 3rd and 4rth year, project coordinator
- MSc project coordinator
- Director, e-Business Programme
- Director, Software Engineering Programme
- Teaching Committee Member for the School of Computer Science
- Research Committee Member

Teaching

Dr Radenkovic has had a strong lasting commitment to maintaining high standards in teaching and learning with the ability to educate and inspire students in a variety of Computer Science fields at both undergraduate and postgraduate levels. Dr Radenkovic has highly-developed communication skill to engage effectively with a range of audience both orally and in writing using a range of media. Dr Radenkovic has been able to design, develop and deliver high quality courses, effective supervision and assessment in fully online, face to face, hybrid and blended manner in line with best practices.

Dr Radenkovic has been investigating developing and applying innovative and appropriate teaching techniques and material that creates interest, understanding and enthusiasm among students.

Dr Radenkovic has led programmes comprising lectures, seminars tutorials and other form of teaching activities for undergraduate, MSC, PhD and apprenticeships degree students. Dr Radenkovic has always worked successfully with diverse students and all lectures are compliant with EDI.

In her role as Advanced Higher Education Athena SWAN Chair and Equality Diversity and Inclusion Vice Chair, Dr Radenkovic contributed and led new teaching initiatives on how to best support distance learners including students whose first languages in not English and students from a variety of backgrounds and disciplines encouraging inclusivity.

Within blended, hybrid, online teaching best practises Dr Radenkovic has been employing both synchronous and asynchronous teaching focusing on learning objectives via interactive pages and supporting material to enable student centred agile delivery her modules that is better for listeners and aligned with learning goals.

Over the past 17 years, Dr Radenkovic has been delivering effective teaching, assessment and feedback through face-to-face lectures, recorded lectures, online lectures, mixed mode lectures. Dr Radenkovic has been using a variety of tools such as Adobe Connect, Cisco WebEx, Moodle, MS Teams, quizzes, ROGO, Google classroom, Zoom, Universal capture Echo 360, Recorded/Narrated PowerPoint slides and Slido.

Dr Radenkovic's modules are often organised by topics which integrate lectures, videos and various activities with clear learning goals and inviting and getting the feedback continuously from students to see their suggestion. Dr Radenkovic has been designing her teaching to improve granularity, inclusivity and engagement. Dr Radenkovic has always enabled continuous assessment of her modules material such as for example via multiple choice, drag and drop, categorisation, order questions and annotate graphs. Students satisfaction surveys have continuously and consistently rated he teaching well above the Faculty standards.

Dr Radenkovic scoped the School MSC Data Science Course and created advertising material about MSC Data Science curriculum to be distributed throughout University of Nottingham campuses in China and Malaysia

Dr Radenkovic is Director of Software Engineering and e-Business programmes and she has written the programme specification and learning outcome maps for both.

Dr Radenkovic is permanent Teaching Committee Member and has co-led the design for ACM certified Computer Science degree. Dr Radenkovic has contributed to the MSC Data Science Course and creating advertising material for India, China and Malaysia. Dr Radenkovic has proposed, designed, developed and led a 10-week student summer internship programme over seven years. During these internships she guided the students to learn about wireless mobile sensor networks, IoT, mobile ad hoc, vehicular ad hoc, delay-tolerant protocols and edge clouds where they experimented with her Raspberry Pi edge cloud testbed.

Dr Radenkovic has been using a range of pedagogical approaches and various theories and practices to facilitate learning such as different methods of teaching, learning activities, and assessments, all aimed at achieving specific learning outcomes. These approaches have been influenced by learning theories, understanding of students' needs, and the broader social and cultural contexts.

For example, Dr Radenkovic has been emphasising the active role of the students in constructing their own knowledge and understanding so that they build upon prior knowledge through experiences, collaboration, and reflection.

Dr Radenkovic has always used collaborative pedagogy which involves teachers and students working together in to create an engaging and inclusive learning environment

Dr Radenkovic has always aimed create a positive and supportive classroom environment that fosters both academic and social-emotional development.

Dr Radenkovic has been aiming to empower students by removing barriers to learning and fostering critical thinking and social change.

Dr Radenkovic has been encouraging students to analyze and challenge social structures and inequalities.

Modules:

Advanced Computer Networks (80-150 students)

- This module has been taught both in variety of ways including face-to-face lectures and asynchronous recorded lectures mode over 11 weeks with 2 computing hour (for the coursework), 2 lectures per week
- Assessment has been based on the individual coursework (project) and final open book exam
- Lectures were recorded and provided to the students asynchronously for easier revision. Different quizzes have been provided for student feedback on the module and teaching Additional material has been provided combined with the invited lectures given by the industrial and academic speakers to show real world deployment
- The module describes Software Defined Networks (SDNs) and provide examples of using them to enable very large scale complex network control. The module will provide an advanced knowledge of various routing and query protocols in: Ad Hoc Networks; Mobile Ad Hoc Networks (MANETs); Vehicular Ad Hoc Networks (VANETs); Disconnection/Disruption/Delay Tolerant Networks (DTNs), sensor networks, Information Centric Networks, Content Centric Networks, 5G, 6G, Mobile Edge Networks, Edge Clouds and IoT.
- The module also covers the fundamentals and design principles of IoT systems and their use in a wide range of applications such as Smart Manufacturing, Smart Grids, Smart Agriculture, Smart Healthcare and also addresses various aspects of the wider IoT ecosystems such as security, privacy, and ethical considerations. It investigates major machine-to-machine (M2M) communication protocols in IoT. network layer support, monitoring real time sensor data output, IoT building blocks, sensors and actuators, IoT standards, protocols, and security, Networking technologies: Wi-Fi, BT, Zigbee, LoRA, and IPv4. Modelling IoT systems Programming IoT sensors and MCU's, IoT Cloud programming, MQTT, CoAP and OCF.
- Students have access to a remote access IoT and Edge Cloud testbed with over 100 Raspberry Pi devices and over 800 heterogeneous sensors that allow them to explore Machine to Machine communication and expose them to the design, development and evaluation of IoT system and solutions, understanding of network layer support and monitor, process and visualise real time sensor data outputs.

Computer Security (130-170 students)

- The module it is taught over 12 weeks with 1 computing hour and 2 lectures
- Assessment was based on the coursework and open book final exam
- All lectures were recorded and provided to the students asynchronously for easier revision. Different quizzes have been provided for student feedback on the module and teaching
- All teaching, lab work, marking and providing student support were conducted by herself as convenor
- Dr Radenkovic's student evaluation of teaching and student evaluation of modules score have been typically above the Faculty and University average
- Students spend four hours a week in lectures and computer classes to cover the following topics: security of the computer; network security; internet security; IoT security, software and hardware security; mobile security; and cryptography. Students gain familiarity with the most common attacks on modern computer systems, and defences against these.
- Students gain understanding of solutions for avoiding security breaches and other compromises and look at a number of security issues associated with computers and computer networks.
- The module discusses fundamental concepts of IoT systems and their use in a wide range of applications such as smart manufacturing, smart grid, smart agriculture, smart healthcare and also address various aspects of the wider IoT ecosystems such as security, privacy, and ethical considerations.
- The module covers aspect of IoT security, data analytics and research topics in IoT.
- Students have access to a remote access IoT and Edge Cloud testbed with over 100 Raspberry Pi devices and over 800 heterogeneous sensors that allow them to explore Machine to Machine communication and expose them to the design, development and evaluation of IoT system and solutions, understanding of network layer support and monitor, process and visualise real time sensor data outputs.

Computer Communication and Networks (170 - 360 students)

- This module was taught over 12 weeks with 2 lectures and 2 lab/practicals per week using Moodle, MS Teams, 360 Capture to be very interactive and engaging.
- Assessment were based on the coursework (individual project) and open book final exam.
- All lectures were recorded and provided to the students asynchronously for easier revision
- Rich additional material conference papers, live demonstrations, YouTube videos were provided per topic and discussions in Moodle and MS Teams.
- Regular topic based quizzes have been provided for student feedback on the module and teaching
- Additional material has been provided combined with the invited lectures given by the industrial and academic speakers to show real world deployment.
- All teaching, marking and providing student support were done by Dr Radenkovic as convenor.
- Dr Radenkovic's student evaluation of teaching and student evaluation of modules score have been typically above the Faculty and University average.
- This module was part of the Net-Centric Computing theme in the School of Computer Science. This module provided a basic introduction to computer communication networks. It provides an overview of underlying technologies including data transmission techniques, Local Area Networks, Wide Area Networks, wireless networks introduction to network security, internetworking and network applications. Particular attention is paid to the Internet environment and the TCP/IP protocols.

Advanced Computer Communications (30-100 students)

- Dr Radenkovic has proposed, design and delivered this module.
- This module was taught over 12 weeks with 2 computing hours and 2 lectures per week

- Assessment has been based on the coursework and open book final exam
- All lectures were recorded and provided to the students asynchronously for easier revision.
- Different quizzes have been provided for student feedback on the module and teaching
- Regular discussions with students were held on their project work and module topics with Ms Teams and Moodle
- Additional material has been provided combined with the invited lectures given by the industrial and academic speakers to show real world deployment
- All teaching, lab work, marking and providing student support were done by herself
- Dr Radenkovic's student evaluation of teaching and student evaluation of modules score have been typically above the Faculty and University average.
- The module provides a basic understanding of network-related initialization and the operation of the main Internet protocols. It gives an insight into the service definition and protocols of the most important network applications services. It considers basic network architectures such as the client-server model and the more complex distributed systems. Introduction to technologies includes p2p and wireless networking.

Databases and Interface (180-220 students)

- Dr Radenkovic has proposed and designed this module was taught over 12 weeks with 2 computing hour and 3 lectures
- Assessment was based on the two course-works (databases and interfaces) and final exam
- All lectures were recorded and provided to the students asynchronously for easier revision. Different quizzes have been provided for student feedback on the module and teaching
- provide students with a general introduction to the theory and practice of database systems.
- This module enables students to gain experience with modern database systems through the use of the SQL language. The module gives them an understanding of the structure and workings of database systems and provide some insight into recent developments, gives them an understanding of the principles of event-driven programming and enables the students to gain experience with design and implementation of GUI interfaces within a database environment.

Third year and fourth year projects supervision

- More than 90% of students were awarded First Class and Distinction marks for their projects.

Second year software group projects supervision

- Dr Radenkovic has regularly supervised software group project with industrial partners including ATOS, TUI, BT, Experian.
- Dr Radenkovic's group projects have regularly been awarded First Class mark and distinction for their group projects.
- Seven of her group project students received the "Best Code Quality" awards nominated by industrial partners for 7 years.

MSc projects supervision

- Dr Radenkovic's MSc student projects regularly obtained First Class and Distinction their achievements s and presentations.
- 12 of her MSc projects students received Vice Chancellor Award for the Best MSC Dissertation Award at the University of Nottingham over 17 years (2006, 2007, 2010, 2009, 2011, 2012, 2013,2015, 2016, 2017, 2018), five published papers in IEEE international conferences and undertook PhDs (Sameh Zakhary, Chuka Oham, Vu San Ha Huynh, Adam Walker and Joyce Addae).

Member of School Panel Marking Team

- Member of the School Panel Marking Team for 3th year, 4th year and MSc projects
- Dr Radenkovic has reviewed and marked around 30 students' dissertations per year and provided bucket mark for each student, participated in the Marking Team meetings and resolved conflicts when needed.

Tutoring

- Dr Radenkovic has been Personal tutor to over 30 students each year including students in their First Year, Second Year, Third Year, Fourth Year, MSc students.
- Within this role Dr Radenkovic has provided support to her tutees they needed and met with them regularly.

External and Remote Teaching

- Professor at Alfa BK School of Mathematical Sciences and Information Technology, University of Belgrade, 2010 – ongoing, "Advanced Computer Networks and Security", Masters course. Dr Radenkovic was on the accreditation team that enabled accreditation of the private Alfa BK University by the Ministry of Education, Science and Technological development of the Republic of Serbia. She proposed core modules for undergraduate and Master degrees for the network-centric theme comprising of "Introduction to Computer Networks and Systems", "Advanced Computer Networks", "Advanced Computer Security", "Distributed systems".
- Invited Visiting Professor at OTH Regensburg Germany, Masters Course on "Advanced Computer Networks". The module is taught over 15 weeks with 3 lectures and 1 computing hour per week.
- Invited Visiting Professor at the University of Valencia, Spain, Masters Course on "Advanced Computer Networks". The module is taught over 10 weeks, with 5 lectures and 1 computing hour per week.

Publications related to Teachings or Scholarship and Contribution to Teaching Innovation.

Dr Radenkovic published a research paper on a novel low cost Raspberry PI based testbed for quick prototyping framework that enables designing, building, and testing complex distributed communication protocols and can be used for both teaching and research.

M. Radenkovic; J. Crowcroft; M. H. Rehmani, "Towards Low Cost Prototyping of Mobile Opportunistic Disconnection Tolerant Networks and Systems," in IEEE Access, vol.PP, no.99, pp.1-1 doi:10.1109/ACCESS.2016.2606501

Dr Radenkovic has designed and built a new low-cost Raspberry PI testbed with over 100 Raspberry Pis and 800 sensors which enables building and testing intelligent distributed communication protocols and systems and has already been used for teaching and student training.

With the help of this prototype testbed, many of her undergraduate and postgraduate students were able to gain experience that has helped them generate First Class projects in 2015/16 and one was able to contribute to the IEEE paper which helped him gain PhD offer for 2016/2019.

Dr Radenkovic proposed to use this testbed for teaching at the University of Coruna, funded by Erasmus.

Over 40 of her Advanced Computer Networks and individual project students have already used this testbed to learn more about the Raspberry PIs, IoT, and heterogeneous communication protocols and subsequently receiving First class marks for their projects and published their work in international IEEE conferences such as IWCMC.

As part of the student summer internship programme, the testbed this and help the student learn about wireless sensor networks.

The testbed was used to contribute to EU FP7 project SelSus.