

Ata Chizari
résumé

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0.1 Contact Information

ZH256, Biomedical Photonic Imaging Group (BMPI).
MIRA Institute for biomedical Technology and Technical Medicine,
University of Twente, Faculty of Science and Technology (TNW),
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0.2 Education

- **University of Twente, Enschede, The Netherlands**
Feb. 2017 - Exp. 2021,
Ph.D. with focus on Biomedical Photonics,
Thesis: Designing A Handheld Device for Optical Microcirculatory Perfusion Imaging,
Supervisor: Prof. dr. Wiendelt Steenbergen.
- **Shahid Beheshti University (SBU), Tehran, Iran**
Sep. 2013 - Sep. 2015,
M.Sc. with focus on Communication Systems,
GPA:17.79/20.00 (3.81/4),
Thesis: Designing A Dimmable OPPM-Based VLC System Under Channel Constraints,
Supervisor: Dr. Akbar Dargahi.
- **Tafresh University, Tafresh, Iran**
Sep. 2009 - Sep. 2013,
B.Sc. with focus on Electronics,
GPA:18.72/20.00(3.96/4),
Thesis: Remote Control Switching Device of Electricity Keys with Capability of Easy Installation,
Supervisor: Dr. Ali M. Fotouhi.

0.2.1 Certifications

- Participation in 10th IEEE/IET International Symposium on Communication Systems, Networks, and Digital Signal Processing (CSNDSP), Czech Technical University, Prague 2016
- Participation in 4rd Iran Workshop on Comm. and Inf. Theory (IWCIT), Sharif University of Technology, Tehran 2016
- Participation in 3rd Iran Workshop on Comm. and Inf. Theory (IWCIT), Sharif University of Technology, Tehran 2015
- Participation in 21st Iranian Conference on Optics and Photonics (ICOP), Shahid Beheshti University, Tehran 2015
- Participation in 22nd Iranian Conference on Electrical Engineering (ICEE), Shahid Beheshti University, Tehran 2014
- Participation in International Symposium on Telecommunications (IST), Iran Telecommunications Research Center (ITRC), Tehran 2014
- Participation in workshop on Optical Wireless Communication Systems: Indoor and Outdoor, Iran Telecommunications Research Center (ITRC), Tehran 2014

0.2.2 Accomplished Courses

Graduate Courses

Undergraduate Courses

0.3 Honors and Awards

- Awarded scholarship for Ph.D. studies from University at Twente, 2017
- IEEE/IET Student Travel Grant Award for 10th IEEE/IET CSNDSP 2016, Prague, 2016
- Financial Support for U.S. Patent Application by Iran National Science Foundation, 2016
- Ranked 3rd among Communication Systems students of Shahid Beheshti University, 2015
- Member of swimming team of Shahid Beheshti University at 12nd Nationwide Student Sport Olympiad, 2014
- Accepted as talented student for graduate studies at Shahid Beheshti University, 2013
- Ranked 1st among 120 students in class of 2009 Electrical Engineering entrants, 2013
- Ranked top 3% in the National Entrance Exam among Electrical Engineering students of Iran for M.Sc. studies, 2013
- Ranked top 4% in the Nationwide University Entrance Exam (KONKOOR) for B.Sc. studies, 2009
- Ranked 1st among 150 students in class of 2004 Mathematics and Physics of Bahonar High School, 2007

0.4 Talks

0.5 Research

- Researcher ID: R-5148-2017

0.5.1 Research Interests

- Laser based perfusion imaging
- Laser speckle contrast imaging
- Laser Doppler perfusion imaging
- Analog optical signal processing
- Metamaterials
- Visible light communications and indoor positioning
- Underwater wireless optical communications

0.5.2 Publications

Patents

- J.A. Salehi, H. Hosseinianfar, and A. Chizari, “Methods and Systems for Geometrical Optics Positioning using Spatial Color Coded LEDs”, US Patent, app. No. 15275431, 2016.
- A. M. Fotouhi and A. Chizari, “Remote Control Switching Device of Electricity Keys with Capability of Easy Installation”, Iran Patent, registration number: 73930, 2012.

Journal Papers and Preprints

- Jamali, M.V., Mirani, A., Parsay, A., Abolhassani, B., Nabavi, P., Chizari, A., Khorramshahi, P., Abdollahramezani, S. and Salehi, J.A., 2018. Statistical Studies of Fading in Underwater Wireless Optical Channels in the Presence of Air Bubble, Temperature, and Salinity Random Variations (Long Version). arXiv preprint arXiv:1801.07402.
- Chizari, A., Jamali, M.V., Abdollahramezani, S., Salehi, J.A. and Dargahi, A., 2017. Visible light for communication, indoor positioning, and dimmable illumination: A system design based on overlapping pulse position modulation. *Optik-International Journal for Light and Electron Optics*, 151, pp.110-122.
- Abdollahramezani, S., Chizari, A., Dorche, A.E., Jamali, M.V. and Salehi, J.A., 2017. Dielectric metasurfaces solve differential and integro-differential equations. *Optics letters*, 42(7), pp.1197-1200.
- Jamali, M.V., Chizari, A. and Salehi, J.A., 2017. Performance analysis of multi-hop underwater wireless optical communication systems. *IEEE Photon. Technol. Lett.*, 29(5), pp.462-465.
- Dorche, A.E., Abdollahramezani, S., Chizari, A. and Khavasi, A., 2016. Broadband, polarization-insensitive, and wide-angle optical absorber based on fractal plasmonics. *IEEE Photonics Technology Letters*, 28(22), pp.2545-2548.
- Jamali, M.V., Chizari, A. and Salehi, J.A., 2016. Performance analysis of multi-hop underwater wireless optical communication systems (extended version). arXiv preprint:1603.02895.
- Chizari, A., Abdollahramezani, S., Jamali, M.V. and Salehi, J.A., 2016. Analog optical computing based on a dielectric meta-reflect array. *Optics letters*, 41(15), pp.3451-3454.

Conference Proceedings

- Chizari, A., Jamali, M.V., AbdollahRamezani, S., Salehi, J.A. and Dargahi, A., 2016, July. Designing a dimmable OPPM-based VLC system under channel constraints. In *Communication Systems, Networks and Digital Signal Processing (CSNDSP), 2016 10th International Symposium on* (pp. 1-6). IEEE.
- Olyaei, S., Nikoosohbat, A., Mohebzadeh-Bahabady, A. and Chizari, A., 2016, July. Square-hexagonal nanostructured photonic crystal fiber at 1550 nm wavelength. In *Communication Systems, Networks and Digital Signal Processing (CSNDSP), 2016 10th International Symposium on* (pp. 1-4). IEEE.
- Ghahremanirad, E., Olyaei, S. and Chizari, A., 2016, July. Nano-plasmonic thin-film solar cell receiver in visible light communication. In *Communication Systems, Networks and Digital Signal Processing (CSNDSP), 2016 10th International Symposium on* (pp. 1-5). IEEE.
- Lotfi-Rezaabad, A., Talebi, S. and Chizari, A., 2016, July. Two quasi orthogonal space-time block codes with better performance and low complexity decoder. In *Communication Systems, Networks and Digital Signal Processing (CSNDSP), 2016 10th International Symposium on* (pp. 1-5). IEEE.
- Fazelian, M., AbdollahRamezani, S., Bahrani, S., Chizari, A., Jamali, M.V., Khorramshahi, P., Tashakori, A., Shahsavari, S. and Salehi, J.A., 2016, May. Mining DNA sequences based on spatially coded technique using spatial light modulator. In *Communication and Information Theory (IWCIT), 2016 Iran Workshop on* (pp. 1-6). IEEE.
- Jamali, M.V., Khorramshahi, P., Tashakori, A., Chizari, A., Shahsavari, S., AbdollahRamezani, S., Fazelian, M., Bahrani, S. and Salehi, J.A., 2016, May. Statistical distribution of intensity fluctuations for underwater wireless optical channels in the presence of air bubbles. In *Communication and Information Theory (IWCIT), 2016 Iran Workshop on* (pp. 1-6). IEEE.

0.5.3 Awarded Research Grants

- PhD Scholarship, University of Twente, 2017-2021, 100k euros
- IEEE/IET Student Travel Grant Award for 10th IEEE/IET CSNDSP 2016, Prague, Czech Republic, 2016, 300 euros
- US Patent Application, Iran National Science Foundation (INSF), 2016, 17k USD

0.5.4 Technical Review Activities

- IEEE Transaction on Vehicular Technology
- IEEE Photonics Journal
- IEEE Vehicular Technology Magazine
- IEEE Communications Letters
- Journal of Optical Communications and Networking

0.5.5 Membership

IEEE Communications Society (93943136), 2016

0.6 Teaching

0.6.1 Advisees

Master Student

Undergraduate Students

0.6.2 Teaching Assistantships

0.6.3 Laboratory Assistantships

0.7 References

- **Prof. Wiendelt Steenbergen (E-mail: w [dot] steenbergen [at] utwente [dot] nl)**
Professor, Faculty of Science and Technology , University of Twente (PhD: Delft Uni. of Tech.)
- **Prof. Jawad A. Salehi (E-mail: jasalehi [at] sharif [dot] edu)**
Professor, IEEE Fellow, Electrical Engineering, Sharif University of Technology (PhD: USC)
- **Dr. Akbar Dargahi (E-mail: a-dargahi [at] sbu [dot] ac [dot] ir)**
Assistant Professor, Electrical Engineering, Shahid Beheshti University (PhD: Uni. of Wales)
- **Dr. S. Ali Ghorashi (E-mail: a_ghorashi [at] sbu [dot] ac [dot] ir)**
Associate Professor, Electrical Engineering, Shahid Beheshti University (PhD: King's Collenge London)
- **Dr. Farah Torkamani-Azar (E-mail: f-torkamani [at] sbu [dot] ac [dot] ir)**
Associate Professor, Electrical Engineering, Shahid Beheshti University (PhD: New South Wales University)
- **Dr. Ali M. Fotouhi (E-mail: fotouhi [at] tafreshu [dot] ac [dot] ir)**
Assistant Professor, Electrical Engineering, Tafresh University (PhD: Amirkabir Uni. of Tech.)

0.8 Links

- Google Scholar
- LinkedIn
- Twitter
- Facebook

0.9 Languages

- English, Professional Working Proficiency (B2)
- Dutch, Limited Working Proficiency (B1)
- Persian, Native

0.10 Citizenship

- Permanent Citizen of Iran
- Temporal Resident of The Netherlands

0.11 Leisure Activities

- Swimming
- Running
- Cycling
- Mountaineering