

Ata Chizari  
résumé

September 16, 2018

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## 0.1 Contact Information

ZH264, Biomedical Photonic Imaging Group (BMPI).  
MIRA Institute for biomedical Technology and Technical Medicine,  
University of Twente, Faculty of Science and Technology (TNW),  
Drienerlolaan 5, 7522 NB Enschede, The Netherlands.

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Website ..... atachizari.com

## 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: Design and Implementation of a Remote Control Switching Device for Electricity Keys with  
Capability of Easy Installation,  
Supervisor: Dr. Ali M. Fotouhi.

### 0.2.1 Certifications

#### Conferences Proceedings Participation

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

#### Generic Courses and Educational Workshops Provided by University of Twente, Center for Training and Development (CTD)

- NT2 High Proficiency Dutch (C1) Exp. Sep. - Dec. 2018
- Cambridge First Certificate (B2) . Oct. 2017 - Apr. 2018
- Cambridge Advanced English (C1) .... Apr. - Exp. Nov. 2018
- Scientific Information Boot-camp .. Jan. 2018
- Dutch Follow-up III (B2) ... Mar. - Jun. 2018
- Dutch Follow-up II (B1) .... Nov. 2017 - Mar. 2018

- Laser Safety for Users .....Jan. 2018
- Designing a Lesson and a Course ...Jan. 2018
- Write to Publicize ..... Nov.- Dec. 2017
- English for Lectures ..... Nov.- Dec. 2017
- Creative Thinking ..... Nov. 2017
- Storytelling and How to make your Lessons Stick ..... Nov. 2017
- Dutch Follow-up I (A2) .....Sep.- Nov. 2017
- Basics on How to Create an Industrial Video Oct. 2017
- Practical Teaching Skills ..... Oct. 2017
- Project Management for PhD Students .. Oct. 2017
- PhD Introductory Workshop .....Sep. 2017
- Supervising Students .....Sep. 2017
- Research Data Management .....Sep. 2017
- Orientation on the University of Twente Bachelor Educational Program ..... Jul. 2017
- Getting Started with the CE Stamp on your Medical Devices ..... Jun. 2017
- Dutch for Beginners (A1) ... Apr. - Jun. 2017
- From Idea to Patent and to Business May 2017
- Transferable Skills ..... Apr. 2017

## 0.2.2 Accomplished Disciplinary Courses

### Graduate Courses (grades are out of 20)

- Spring 2017 .....University of Twente  
Biomedical Optics ..... Audited
- Spring 2015 ..... Sharif University of Tech.  
Data Communication Networks ..... Audited  
Advanced Data Comm. Networks .... Audited  
Optical Comm. Networks ..... Audited
- Spring 2015 .....Shahid Beheshti University  
Thesis .....19.75  
Optoelectronics II ..... Audited
- Fall 2014 .....Sharif University of Tech.  
Statistical Optical Comm. .... Audited
- Fall 2014 ..... Shahid Beheshti University  
Thesis ..... Proj. Cont.
- Information theory and Coding I ..... 17.3  
Optoelectronics I ..... 17.8
- Spring 2014 .....Shahid Beheshti University  
Spread Spectrum ..... 17.5  
Optical Communication Systems ..... 17  
Wireless Communications ..... 19.75  
Seminar ..... 19
- Fall 2013 ..... Shahid Beheshti University  
Stochastic Processes ..... 15.5  
Advanced Communication Theory ..... 17.6  
Digital Signal Processing ..... 15.15
- Spring 2013 ..... Tafresh University  
Image Processing ..... 20

### Undergraduate Courses at Tafresh University (grades are out of 20)

- Spring 2013  
Electrical Installations .....17  
Technical English Language ..... 20  
Power Systems Analysis I ..... 18.6  
Physics of Electronics ..... 19.75  
Industrial Electronics .....19.75  
Linear Control Systems Lab. .... 20  
Communications Circuits Lab. .... 20  
Electronics lab. III Project ..... 19  
Islamic Revolution and its Origins ..... 19.5
- Summer 2012  
Internship ..... 18
- Spring 2012  
Communication Circuits ..... 20  
Electrical Machines II ..... 20  
Engineering Economics ..... 20  
Numerical Calculations ..... 20  
Project ..... 20  
General Workshop ..... 20  
Electrical Workshop ..... 20  
Computer Architecture Lab. .... 20  
Electrical Machines Lab. I ..... 20  
Electronics Lab. III .....19.5  
Pulse Technique Lab. .... 16.5  
History of Islam ..... 17.5

• Fall 2011	Electronics I .....	19.5	• Spring 2010	General Mathematics II .....	20
Communication Systems .....	19.5	Logic Circuits .....	Computer Programming (C) .....	20	
Electronics III .....	20	Measurements and Circuits Lab. I .....	General Differential Equations .....	16	
Microprocessor .....	18	Electromagnetism .....	Electrical Circuits I .....	18.25	
Pulse Technique .....	17.25	Physical Education II .....	Electrical Measurement .....	20	
Linear Control Systems .....	20		Persian .....	18	
Thermodynamics .....	20		Islamic Texts .....	17.5	
Electronics Lab. II .....	20				
• Spring 2011			• Fall 2009	Physics I .....	17.5
Electronics II .....	19		Physics II .....	15	
Signals and Systems .....	20		General Mathematics I .....	15	
Electrical Machines I .....	17		English Language .....	19	
Computer Architecture .....	17.5		Industrial Drafting .....	18	
Engineering Statistics and Probability ..	17.5		Islamic Education I .....	20	
Electronics Lab. I .....	19.5		Islamic Ethics and Education .....	17	
Logic Circuits Lab. ....	20				
Physics Lab. I .....	20				
Physics Lab. II .....	20				
Physical Education I .....	20				
Islamic Education II .....	17.5				
• Fall 2010					
Engineering Mathematics .....	17.7				
Electrical Circuits II .....	17				

### 0.3 Honors and Awards

- Awarded Scholarship for Ph.D. Studies from University at Twente ..... 2017 - 2021
- IEEE/IET Student Travel Grant Award for 10<sup>th</sup> IEEE/IET CSNDSP 2016, Prague.....2016
- Financial Support for U.S. Patent Application by Iran National Science Foundation (INSF) ..... 2016
- Ranked 3<sup>rd</sup> Among Communication Systems Students of Shahid Beheshti University ..... 2015
- Member of Swimming Team of Shahid Beheshti University at 12<sup>nd</sup> Nationwide Student Sport Olympiad 2014
- Accepted as Talented Student for Graduate Studies at Shahid Beheshti University ..... 2013
- Ranked 1<sup>st</sup> 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 1<sup>st</sup> Among 150 Students in Class of 2004 Mathematics and Physics of Bahonar High School 2007

### 0.4 Presentations

#### 0.4.1 Selected Talks

- “Laser Speckles and Microcirculatory Perfusion Imaging”, Monthly Meetings on Advances in Nanophotonics (ANP), University of Twente, Enschede, The Netherlands.....Oct. 2017
- “Designing a dimmable OPPM-based VLC system under channel constraints”, IEEE 10th International Symposium on Communication Systems, Networks and Digital Signal Processing (CSNDSP), Czech Technical University, Prague, Czech Republic ..... Jul. 2016

- “Nano-plasmonic thin-film solar cell receiver in visible light communication”, IEEE 10th International Symposium on Communication Systems, Networks and Digital Signal Processing (CSNDSP), Czech Technical University, Prague, Czech Republic ..... Jul. 2016
- “Two quasi orthogonal space-time block codes with better performance and low complexity decoder”, IEEE 10th International Symposium on Communication Systems, Networks and Digital Signal Processing (CSNDSP), Czech Technical University, Prague, Czech Republic.....Jul. 2016
- “Square-hexagonal nanostructured photonic crystal fiber at 1550 nm wavelength”, IEEE 10th International Symposium on Communication Systems, Networks and Digital Signal Processing (CSNDSP), Czech Technical University, Prague, Czech Republic ..... Jul. 2016
- “Mining DNA sequences based on spatially coded technique using spatial light modulator”, IEEE Iran Workshop on Communications and Information Theory (IWCIT), Sharif University of Technology, Tehran, Iran ..... May 2016

### 0.4.2 Selected Laboratory Demonstrations

- “A Standard Setup for Laser Speckle Contrast Imaging (LSCI)”, User Committee Meeting for STW-NWO Funded Project Designing a Handheld Device for Optical Microcirculatory Perfusion Imaging, Biomedical Photonic Imaging Group (BMPI), University of Twente, Enschede, The Netherlands.Sep. 2017
- “Smartphone-based Geometrical Optics Indoor Positioning using Spatial Color Coded LED Arrays”, IEEE Iran Workshop on Communications and Information Theory (IWCIT), Optical Networks Research Lab (ONRL), Sharif University of Technology, Tehran, Iran.....May 2015

## 0.5 Research

- Researcher ID .....R-5148-2017
- ORCID ID ..... 0000-0001-7679-7077
- Scopus ID ..... 57190381690
- Publons ID .....1562206

### 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. 15/275,431 ..... 2018
- 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

- Hosseinianfar, H., Chizari, A. and Salehi, J.A., 2018. GOPA: Geometrical Optics Positioning Algorithm Using Spatial Color Coded LEDs (Extended Version). arXiv preprint arXiv:1807.06931.
- 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. *IEEE Transactions on Communications*.
- 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, 100k euros ..... 2017 - 2021
- IEEE/IET Student Travel Grant Award for 10<sup>th</sup> IEEE/IET CSNDSP 2016, Prague, Czech Republic, 300 euros.....2016
- US Patent Application, Iran National Science Foundation (INSF), 17k USD.....2016

### 0.5.4 Technical Review Activities

- Optik - International Journal for Light and Electron Optics
- IEEE Access
- IEEE Photonics Journal
- Journal of Optical Communications and Networking
- working
- IEEE Vehicular Technology Magazine
- IEEE Transaction on Vehicular Technology
- IEEE Communications Letters

### 0.5.5 Membership

IEEE Communications Society (93943136) ..... 2016

### 0.5.6 Selected Accomplished Projects

**University of Twente ..... Feb. 2017- Exp. 2021**

- Implementation of a real-time and GUI-based laser Doppler perfusion monitoring system based on a high-speed camera (MATLAB)
- Estimation of the Refractive Index of a Contact Lens using Ultrasound Technique (MATLAB, Labview)
- Implementation of real-time and GUI-based laser speckle contrast imaging/monitoring system (MATLAB), Jan. 2018
- Simulation of laser Doppler/speckle-contrast imaging/monitoring systems via computer generated speckle patterns (MATLAB)

**Sharif University of Technology ..... Sep. 2014- Sep. 2016**

- Simulation of dielectric meta-transmit-array (CST)
- Design and implementation of visible light indoor positioning system (MATLAB)
- Design and implementation of LED-based illumination systems for indoor and outdoor environments

**Afra Engineering Group ..... Feb. 2014 - Sep. 2016**

- RFID-based smart card service for:
  - The 13<sup>th</sup> International Conference on Information Security and Cryptology ..... ISC 2016
  - The 22<sup>nd</sup> Iranian Conference on Electrical Engineering ..... ICEE 2014
  - The 9<sup>th</sup> Iranian Conference on Machine Vision and Image Processing ..... MVIP 2015
  - The 21<sup>st</sup> Iranian Conference on Optics and Photonics ..... ICOP 2015

**Shahid Beheshti University ..... Sep. 2013- Sep. 2015**

- Developing a GUI-based transceiver with various modulation schemes, such as QAM and DPSK, in the presence of AWGN considering ISI and equalizer effects (Advanced Communications Theory, Monte Carlo Simulation, MATLAB)
- Developing a GUI-based random access network with various techniques, such as ALOHA and CSMA (Wireless Communications, MATLAB)
- Simulation and analysis of an indirect optical fiber transceiver using Mach-Zehnder modulator (Fiber Optic Communications, Opti-system)
- Developing an RFID-based smart card service for conference participants (AVR microprocessors, Altium Designer)



**Tafresh University** ..... **Sep. 2009 - Sep. 2013**

- Design and implementation of a remote control switching device of electricity key with capability of easy installation (AVR microprocessors, Code Vision AVR, Altium Designer)
- Design and implementation of a switching mode power supply and a power amplifier (Electronics Lab Project, Altium Designer, Fairchild Semiconductor Software)
- Design and implementation of a binary to BCD converter using VHDL on FPGA (Digital Lab, Quartus)
- Design and implementation of an auto-irrigating system for gardens (Microprocessors Lab, Code Vision AVR)

## 0.6 Teaching

### 0.6.1 Advisees

#### Master Student

Mona Zarrinsaz Sorkhabi ..... Sep. 2015  
Thesis Title: Analysis of the Poynting vector error effect on the multi-input multi-output receivers in wireless communication systems, Shahid Beheshti University (SBU).  
Main Supervisor: Dr. Akbar Dargahi

#### Undergraduate Students

- Klaas Vlasma ..... Jul. 2018  
Thesis Title: Motion artifacts in laser speckle contrast imaging of blood flow, University of Twente.  
Main Supervisor: Prof. Dr. Wiendelt Steenbergen
- Mirjam J. Marseille ..... Sep. 2017  
Thesis Title: Analysis of human skin perfusion based on laser Doppler perfusion imaging and Monte Carlo simulation, University of Twente.  
Main Supervisor: Prof. Dr. Wiendelt Steenbergen
- Pouya Shiri ..... Sep. 2014  
Thesis Title: Design and implementation of a donut shaped three dimensional display based on a single light emitting diode, Shahid Beheshti University (SBU).  
Main Supervisor: Prof. Mohammad Eshghi

### 0.6.2 Teaching Assistantships

- “Fiber Optic Communications” ..... Fall 2014, Spring-Fall 2015  
Dr. A. Dargahi ..... Shahid Beheshti University
- “Electronics II” ..... Spring 2013  
Dr. F. Hajati ..... Tafresh University
- “Digital Circuits”, “Microprocessors” ..... Fall 2012  
Dr. A.M. Fotouhi ..... Tafresh University
- “Electrical Circuits” ..... Spring 2012  
Dr. H. Meshgin ..... Tafresh University
- “Computer Architecture”, ..... Fall 2011  
Prof. A. Raie ..... Tafresh University

### 0.6.3 Laboratory Assistantships

- “Biomedical Optics”, Prof. Dr. W. Steenbergen, Prof. Dr. S. Manohar, Dr. I. Vellekoop, and Dr. N. Bosschart, University of Twente ..... Summer 2017, Summer 2018
- “Ultrasound”, Prof. Dr. W. Steenbergen, University of Twente ..... Winter 2018
- “Field-programmable Gate Array (FPGA)”, Dr. A. Dargahi, Shahid Beheshti University .. Fall 2014
- “Microprocessors”, Prof. M. Eshghi, Shahid Beheshti University ..... Spring 2014
- “Logical Circuits”, Prof. M. Eshghi, Shahid Beheshti University ..... Fall 2013

## 0.7 Personal Skills

### 0.7.1 Languages

#### Communication

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

#### Programming

- MATLAB
- C
- VHDL
- Assembly

### 0.7.2 Softwares

- Operating Systems: Windows, Mac
- Documentations: Microsoft Office,  $\LaTeX$ , Adobe Acrobat
- Simulators: MATLAB, Opti-System, CST Design Studio,
- Cadence (Analog Circuits)
- Compilers: CodeVision AVR, AVR Studio, Quartus, Xilinx ISE
- Designers: AutoCAD, Adobe Photoshop, Altium Designer

## 0.8 References

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

## 0.9 Links

- Google Scholar
- Research Gate
- Mendeley
- LinkedIn
- Twitter (atachizari)
- Facebook (ata.chizari)
- Instagram (atachizari)

## 0.10 Citizenship

- Permanent Citizen of Iran
- Temporal Resident of The Netherlands

## 0.11 Leisure Activities

- Swimming
  - Zwem4Daagse 2018, 4 days of each 1 km free style (19:57 /km)
- Running
  - Enschede Singelloop 2018, 8.2 km (4:37 per km)
  - Batavierenrace 2018, 9.4 km (4:41 per km)
  - Batavierenrace 2017, 9.9 km (5:30 per km)
- Cycling
  - Enschede to Sallandse Heuvelrug national park round trip 100 km (20 km/h)
- Mountaineering
- Diving
  - SSI Diver ID (MID): .....2527470
  - Master dive center: .....ZPV Piranha (714007)
- Waterskiing
- Tennis
- Ping pong
- Badminton