

CV: Peyman Teymoori

PERSONAL INFORMATION

Family name, First name: **Teymoori, Peyman**
Date of birth: **1979**
Gender: **Male**
Nationality: **Iranian, Norwegian permanent resident**
Researcher unique identifier(s): <https://orcid.org/0000-0002-9507-4373>
URL for personal web site: <http://www.mn.uio.no/ifi/english/people/aca/peymant/>
<https://www.linkedin.com/in/peyman-teymoore-16a68424/>
https://www.researchgate.net/profile/Peyman_Teymoori

EDUCATION

2013	PhD in:	<i>Computer Engineering (Science)</i>
	PhD Subject Area:	<i>Wireless Communication Networks</i>
	Dissertation title:	<i>Scalability in Wireless Ad Hoc Networks</i>
	Grade:	<i>Excellent (the highest grade)</i>
	Supervisor:	<i>Prof. Nasser Yazdani</i>
	University:	<i>School of Electrical and Computer Engineering, University of Tehran, Iran</i>
2004	Master in:	<i>Computer Engineering (Science)</i>
	Subject Area:	<i>Distributed/Autonomous/Intelligent Systems</i>
	Thesis title:	<i>Distributed Network Management in Active Networks using CORBA</i>
	Grade:	<i>18.5 (in a 20 grade scale)</i>
	Supervisor:	<i>Prof. Hossein Pedram</i>
	University:	<i>Amirkabir University of Technology, Iran</i>
2001	Bachelor in:	<i>Computer Engineering (Science)</i>
	Subject Area:	<i>Computer Networks, Distributed Systems</i>
	Thesis title:	<i>Network Management using Java Management Extension</i>
	Grade:	<i>20 (in a 20 grade scale)</i>
	Supervisor:	<i>Prof. Mohsen Kahani</i>
	University:	<i>Ferdowsi University of Mashhad, Iran</i>

LANGUAGES

Persian (Native), English (Fluent), Norwegian (Upper intermediate – B2)

RESEARCH INTERESTS (and some RELATED PUBLICATIONS)

Communication Networks: <i>Modelling, Optimization, Quality of Service</i>	[j15 – j9, j7 – j1, c28, c26, c25, c23, c19, c18, c17, c15, c13]
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Recursive InterNetwork Architecture (RINA): [e2, j11, c25, c24, c21, c17, c16, r11]
*for Distributed Computing, IoT, cyber-physical
(smart) systems*

Artificial Intelligence: [j10, j8, b1, c6, c5, c3, r11, r10]
Machine Learning, RoboCup Rescue

Software Engineering: [b2, j8, c7, c3, r1]
Software Processes, Agile Processes, UML

Cybersecurity: [j10, c21, c19, c7, r11]
Security of wired/wireless networks and IoT

TAKEN COURSES DURING STUDIES

MSc:

Machine Learning, Advanced Artificial Intelligence, Distributed Artificial Intelligence, Distributed Systems, Parallel Systems, Advanced Computer Networks, Advanced Software Engineering.

PhD:

Performance Modelling of Computer Network and Systems, Intelligent Transport Systems, Wireless Ad hoc and Sensor Networks, Real-Time and Embedded Systems, Stochastic Process, Network Optimization, Game Theory, Advanced Operating Systems.

SOFTWARE DEVELOPMENT CONTRIBUTIONS (only public code listed)

- **The RINASim simulator of the simulation platform OMNeT++**
 - Link: <https://rinasim.omnetpp.org/>
 - Description: RINASim is a stand-alone framework for OMNeT++ discrete event simulator environment that offers a reliable and the most up-to-date tool for simulating RINA-based computer networks.

CERTIFICATES

- **IBM Data Science Professional (certificate) – 2021**
 - What is Data Science ([certificate](#))
 - Tools for Data Science ([certificate](#))
 - Data Science Methodology ([certificate](#))
 - Python for Data Science, AI & Development ([certificate](#))
 - Python Project for Data Science ([certificate](#))
 - Databases and SQL for Data Science with Python ([certificate](#))
 - Data Analysis with Python ([certificate](#))
 - Data Visualization with Python ([certificate](#))
 - Machine Learning with Python ([certificate](#))
 - Applied Data Science Capstone ([certificate](#))
- **Advanced Data Science with IBM Specialization** (*certificate in progress*)
 - Fundamentals of Scalable Data Science
 - Advanced Machine Learning and Signal Processing

- Applied AI with Deep Learning
- Advanced Data Science Capstone
- **Cisco Instructor training program ([certificate](#))**
 - Cybersecurity Operations (CyberOps) – 2022
 - eligible to officially teach Cisco CyberOps Associate¹

TECHNICAL SKILLS

AI & ML:

Machine learning models in Mathematica, MATLAB, R, and Python.

Data Science:

Statistics, Databases (SQL), Plotting and visualization, Optimization, Big data tools (Hadoop)

Cyber-physical systems:

IoT devices, Raspberry pi, Jetson Nano, Arduino

Development and simulation:

C/C++, Java, Python, R, NS-2, OMNeT++, SQL, DevOps, GitLab CI/CD.

Software processes:

Agile methodologies, Rational Unified Process (RUP), Extreme Programming (XP).

CURRENT POSITIONS

2023-	Title:	Associate Professor
	Type:	Full-Time
	Place:	University of South-Eastern Norway – Drammen
	Area:	Information Technology (IT) and Information Systems (IT)
2022-	Title:	Subject Matter Expert
	Type:	Part-time
	Place:	Noroff ²
	Tasks:	Course content development, lecturing, supervision
2022-	Title:	Visiting Scholar
	Place:	University of Oslo
	Tasks:	Research, Student co-supervision

PREVIOUS POSITIONS

2022–	Title:	Lecturer
2023	Type:	Part-time
	Place:	Kristiania University college
	Tasks:	Teaching

¹ <https://www.cisco.com/c/en/us/training-events/training-certifications/certifications/associate/cyberops-associate.html>

² <https://www.noroff.no/en/>

2016-2022	Role:	[RP1] Researcher (technical co-lead, researcher, co-supervisor)
	Project:	OCARINA ³ (Toppforsk project)
	Place:	Department of Informatics, University of Oslo, Norway
	Funded by:	Research Council of Norway
2015-2016	Role:	[RP2] Postdoc (work package co-leader, researcher)
	Project:	PRSTINE ⁴
	Place:	Department of Informatics, University of Oslo, Norway
	Funded by:	European Commission under the FP7 program
2013-2014	Role:	[RP3] Researcher (technical lead, team building, researcher)
	Project:	1.2 Tbps Router ⁵ (Design & implementation of a high-capacity IP network router)
	Place:	School of Electrical and Computer Engineering, University of Tehran, Iran
2011-2013	Role:	[RP4] Visiting Researcher
	Project:	World-Class University (WCU) ⁶
	Place:	Gwangju Institute of Science and Technology, Gwangju, South Korea
	Funded by:	Korean Ministry of Education, Science, and Technology (MEST)
2007-2009	Role:	INDUSTRIAL EXPERIENCE, Chief Executive Officer (CEO), board member
	Project:	Several industrial software engineering projects on banking systems and e-commerce solutions
	Place:	Taban Tech company, Tehran, Iran (I ran my own company before joining a PhD program)
2004-2007	Role:	INDUSTRIAL EXPERIENCE, Project manager/coordinator, developer, team building
	Project:	Several national/international industrial software engineering projects on banking systems, e-commerce solutions
	Place:	Khorasan Data Processing company, Tehran, Iran (the company is now active in the US) ⁷
	Technologies:	Web development (ASP JSP, JSF, .NET, HTML, Javascript, Python), databases (MS SQL Server, Oracle, PostgreSQL), C/C++, JavaCard, Smart Cards, Point of Sale (POS) systems

³ <https://www.mn.uio.no/ifi/english/research/projects/ocarina/index.html>

⁴ <http://ict-pristine.eu/>

⁵ <http://routerlab.ut.ac.ir/projectslist>

⁶ <https://wcu.gist.ac.kr/eng/pages/view/16>

⁷ <https://www.second-pos.com/>

2002-2004	Role:	[RP5] Chief developer, researcher
	Project:	ITMN (Iran Telecommunication Management Network)
	Place:	Iran Telecommunication Research Center (ITRC) ⁸ , Tehran, Iran
2003-2004	Role:	[RP6] Researcher
	Project:	Design and implementation of a distributed network management platform
	Place:	Iran Telecommunication Research Center (ITRC) ⁹ , Tehran, Iran
1999-2000	Role:	[RP7] Developer, researcher
	Project:	Design and prototype implementation of a real-time operating system
	Place:	Ferdowsi University of Mashhad, Mashhad, Iran
1998-1999	Role:	[RP8] Chief developer, researcher
	Project:	Design and implementation of an e-learning platform
	Place:	Ferdowsi University of Mashhad, Mashhad, Iran

FELLOWSHIPS, AWARDS, AND GRANTS

2011	Scholarship, Ministry of science, research and technology, Iran
2011	Scholarship, Ministry of information and communication technology, Iran
2010	A two-year grant to support PhD activities from Iran National Science Foundation
1999	Ranked 1 st in the national programming contest held at Amirkabir University of Technology, Iran. The contest was similar to ACM ICPC.
1999-2001	Ranked 11 th , 15 th , and 21 st (among around 90 teams) in the regional (West Asia) ACM ICPC (International Collegiate Programming Contest)
1999	The best students award of Ferdowsi University of Mashhad, Iran
1997	Ranked 3 rd in the local province in the national University entrance exam

MOBILITY

2011-2013	Gwangju Institute of Science and Technology, Gwangju, South Korea, Project: World-Class University (WCU) ¹⁰ . It was in an interdisciplinary project in the department of Nanobio Materials and Electronics that comprised Information and Communications, Materials Science and Engineering, Mechatronics, Environmental Science and Engineering, and Life Science. Grant received from the ministry of science, research and technology, Iran
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⁸ <https://www.ict.gov.ir/en/introduction/affiliated/itrc>

¹⁰ <https://wcu.gist.ac.kr/eng/pages/view/16>

SUPERVISION OF GRADUATE STUDENTS AND RESEARCH FELLOWS

My supervision experience includes different types of supervision, depending on the program type the students were following or the project they were involved in. In the following, I elaborate these types.

1) Research-Based Supervision (In total: 12 students including 4 PhDs, 5 Master's students, and 3 bachelor students)

- 2022- Supervising a master student:
Martin Mihle Nygaard (*Designing a multihop congestion control*).
Department of Informatics, University of Oslo, Norway
- 2019-2022 Supervising a master student:
Lars Ovar Sveen (*Designing a secure smart home framework using RINA*).
Department of Informatics, University of Oslo, Norway
- 2016-2022 Co-supervising 3 PhD Students (in the OCARINA project)
Students:
[Kristian Andreas Hiorth](#) (*using machine learning over WiFi*),
[Marcel Marek](#) (*multi-path routing*),
[Kristjon Ciko](#) (*devising a proxy to deploy RINA/IoT*)
(successfully defended in 2022)
Department of Informatics, University of Oslo, Norway
- 2013-2015 Informal co-supervision of a PhD Student (successfully defended in 2016)
Student:
[Muhammadamin Araghizadeh](#) (*using UAVs in wireless sensor networks*)
School of Electrical and Computer Engineering, University of Tehran, Iran
- 2008-2010 co-supervision of two master students:
[Mohammadreza Effatparvar](#) (*"routing in wireless ad hoc networks"*, successfully defended in 2010)
School of Electrical and Computer Engineering, University of Tehran, Iran

[Seyyed Alireza Hoseini](#) (*"High-Throughput Low Power CCNP Architecture for High-Speed Wireless Networks"*, successfully defended in 2010)
School of Electrical and Computer Engineering, University of Tehran, Iran
- 2013-2014 co-supervision of two bachelor student:
Mohammadreza Tajzad and Ashkan Moharrami (*"Designing a dual-channel wireless ad hoc protocol in NS-2"*)
- 2010-2011 co-supervision of a bachelor student:
[Ali Sehati](#) (*"Design of a Packet Aggregation Scheme for Wireless Networks in ns-2"*, successfully graduated in 2011)

2) Project-Based Student Supervision (In total: 17 students including 4 PhDs, 11 Master's, and 2 bachelor students)

Project: *Design & implementation of a high-capacity IP network router*

Duration: 24 months, from 2013 – 2014.

The team members were bachelor/master/PhD students, all working in this project as part of their research/thesis/part-time work. I was not their official supervisor (they already had supervisors), but as I was a team leader and technical lead, their research/thesis supervision was performed by me under this project.

Research

Topics:

- Packet processing module implementation plan
- Switch fabric: FPGA, ASIC
- SNMP implementation plan
- Packet filtering methods
- Route Map mechanisms
- Router security analysis
- Routing protocols: RIP, OSPF, BGP, ISIS
- Router test plan
- Command Line Interface design and implementation
- IPv6 implementation/integration
- MPLS implementation/integration
- NAT implementation/integration
- Network Time Protocol implementation/integration
- VLAN implementation/integration
- Packet classification methods
- NetFlow implementation/integration
- PORT mirroring implementation/integration
- STP implementation/integration
- Tunneling protocols integration
- TACACS+ implementation/integration
- RADIUS implementation/integration

3) Program-Based Student Supervision (In total: 12 students)

Under the “Embedded Development” program I have run at Noroff (since August 2022), the students are supposed to work on an original AI-based project (to be eligible for an NVIDIA Jetson AI certificate) as their capstone case, which lasts for two full-time weeks. Most of the students already have a master's degree, but they need supervision to do their capstone project. This includes finding an original idea, defining the problem, and developing a solution. In the end, they need to document and present their work.

4) Course-Based Student Supervision (In total: 150 bachelor students)

The third supervision type belongs to students in course-based programs (without thesis). This mostly includes guidance on the student study plan to be better prepared for future markets. There were 50 + 100 students (at two different private institutes) who were following a course-based program, and they needed supervision according to their program plan. This supervision included advising textbooks, materials, study approaches,

how to choose a proper field in the master studies, future market, and the needs matching with courses to be taken.

TEACHING ACTIVITIES (details in the teaching portfolio document)

2022 –	<p>Role: lecturer</p> <p>Topics: 1) Front-End Development with HTML and JavaScript, 2) Embedded Development (of IoT devices/robots) with C++ and Python, 3) Fullstack development with Java and JavaScript.</p> <p>Institute: Noroff</p>
2020 –	<p>Role: (guest) lecturer</p> <p>Topics: Computer Networks, Smart Cities, Vehicle to Infrastructure Communications, etc.</p> <p>Institutes: NTNU, OsloMet, Kristiania University College.</p>
2010 – 2014	<p>Role: teacher</p> <p>Courses: <i>Computer Networks, Fundamentals of Computer Programming, Fundamentals of Information Systems and Electronic Commerce</i> (master level)</p> <p>Lectures: Several lectures on “Wireless Networks and their Scalability Issues” at the master/PhD level.</p> <p>Institute: University of Tehran, Iran</p> <p>Evaluation by students: score 18.5 (in a 20 scale) in the fall semester, 2010. The average score of the teachers in the department was 17.5.</p> <p>Number of students: more than 100.</p>
2009 – 2011	<p>Role: teacher</p> <p>Courses: <i>Artificial Intelligence, Simulation of Computer Networks, Software Engineering</i></p> <p>Institute: University of Sistan and Balouchestan, Iran.</p> <p>Number of students: more than 200.</p>
2004 – 2010	<p>Role: teacher, course development</p> <p>Courses: <i>Artificial Intelligence, Software Engineering, Database Systems</i></p> <p>Contributions: developing the above courses for the first time in the Institute</p> <p>Institute: Mahestan Institute, Iran.</p> <p>Number of students: more than 200.</p>
2004 – 2005	<p>Role: teacher</p> <p>Courses: <i>Information storage and retrieval, machine & assembly programming</i></p> <p>Institute: Azad University of Karaj, Iran.</p> <p>Number of students: more than 200.</p>
2002 – 2004	<p>Role: manager of the computer engineering section</p>

Institute: [Kanoon Ghalamchi](#), Tehran, Iran

Task: Conducting national-wide contests on computer engineering course among thousands of students who were getting ready for the national MSc entrance exam.

Number of contestants: more than 10000.

1998 – 2001

Role: teacher / teaching assistant

Courses: *Object-Oriented Programming, Web Programming (ASP, JSP, Javascript, HTML), Java, Assembly Language, Compilers, Data Structures and Algorithms.*

Institutes: [Ferdowsi University of Mashhad](#), [Sadjad University](#), [Khayyam University](#), [Islamic Azad University of Mashhad](#), Iran.

Number of students: around 900.

INSTITUTIONAL RESPONSIBILITIES

- 2022- External sensor at Kristiania University College
2021- Third semester PhD evaluation at University of Oslo
- 2020- A defense committee member of three bachelor students at University of Stavanger
- 2016- A defense committee member at the master level for four master students at University of Oslo

COMMISSIONS OF TRUST

- 2013- **Reviewer**
ACM's Transactions on Internet Technology (TOIT)
IEEE/ACM Transactions on Networking
IEEE Transactions on Wireless Communications
IEEE Transactions on Communications
IEEE Transactions on Signal Processing
IEEE Transactions on Network and Service Management
IEEE Journal on Selected Areas in Communications
IEEE Wireless Communications Letters
IEEE Networking Letters
Elsevier Computer Networks
Springer Wireless Networks
Measuring Mobile Broadband Networks in Europe (MONROE)
- 2022 **Editorial, Conferences TPC/Organizer/Chair**
Publicity Chair of 17th Wireless On-demand Network systems and Services Conference, 30 March - 1 April 2022, Oppdal, Norway.
- 2020 **Guest editor** of the feature topic "Transport Layer Innovations for Future Networks" in IEEE Communications Magazine.

- 2020 **Guest editor** of Special Issue "Post-IP Networks: Advances on RINA and other Alternative Network Architectures" in MDPI Computers journal.
- 2020 **TPC** of the workshop on the Future of Internet Transport - FIT 2020 in Paris
- 2020 Workshop (co-)**organizer and TPC chair** in the ICIN 2020 conference in Paris
- 2019 Workshop (co-)**organizer and TPC chair** in the ICIN 2019 conference in Paris
- 2019 **TPC** of International Conference on Computational Intelligence and Communication Networks (CICN 2019)
- 2019 **TPC** of the Ninth International Conference on Performance, Safety and Robustness in Complex Systems and Applications (PESARO 2019)
- 2018 **TPC** of International Conference on Communication Systems and Network Technologies (CSNT 2018)
- Securing Fund**
(Being) Submitted proposals:
- 2022 As the coordinator: a EU proposal on Green Networking, April, 2022.
- As the PI: a proposal on the theory of recursive networking, will be submitted to EIC Pathfinder Open, 2022.
- Funded proposals:**
- 2020 [SP1] Study quality fund (studiekvalitetsmidler 2020), by UiO
A fund of 133000 NOK per year to develop a new study program for master students. It is now running as a pilot program in the department of informatics with two master students, with the possibility of renewing in next years.
Role: PI
- 2009 [FP1] Title: "A Scalable MAC Protocol for Wireless Ad hoc Networks"
Source: [Iran National Science Foundation](#)
Role: PI, researcher
- 1998-2018 Collaborations in several national and international proposal writings.
Successful proposals: [RP1], [RP3], [RP6]-[RP8] (See the "Current and Previous Positions" section)
In total:
- initiation of 9 proposals, collaboration in 6 proposal writing experiences (including the Research Council of Norway (RCN), EU, ERC).
 - **4 (5) successful proposals as the PI:** [RP8], [RP6], [FP1], [SP1], (+[RP1]) in 1998, 2003, 2009, 2020, (2016), respectively.
- Miscellaneous**
- 2021- Member of the [Norwegian Artificial Intelligence Research Consortium \(NORA\)](#)
- 2018- European Commission (EC) Expert

1999-2001 Member of the ACM ICPC team of Ferdowsi University of Mashhad (selection through an internal programming contest)

1999-2000 An elected member of the student scientific society, Ferdowsi University of Mashhad

MAJOR (Key) COLLABORATIONS

Name	Topic	Project	Institution	Country
Michael Welzl	Congestion Control	FP7 PRISTINE and OCARINA	UiO	Norway
Eduard Grasa	Recursive InterNetwork Architecture (RINA)	FP7 PRISTINE and OCARINA	i2CAT	Spain
John Day	Recursive InterNetwork Architecture (RINA)	FP7 PRISTINE and OCARINA	Boston University	USA
Miguel Ponce De Leon	Recursive InterNetwork Architecture (RINA)	FP7 PRISTINE and OCARINA	TSSG	Ireland
Hamid Asgari	RINA, Autonomous Networking	FP7 PRISTINE and proposals	Thales UK	UK
Diego Lopez	RINA, 5/6G	FP7 PRISTINE and proposals	Telefonica	Spain
Jordi Perello	RINA, routing	FP7 PRISTINE and proposals	UPC	Spain
Kiseon Kim	Communication Networks	WCU	GIST	South Korea
Khosrow Sohraby	Communication Networks	WCU	GIST, UMKC	South Korea, USA

PUBLICATIONS

Total: 60 (3 books/lecture notes, 2 editorials, 1 scientific review, 15 journals (2 under review), 28 conferences, 11 technical reports)

I have had a major role in many of my publications, as the first or second author

BOOKS / LECTURE NOTES

[b3] **Peyman Teymoori.** *Database Systems*, Lectures on data modelling, data processing, SQL, and answers to hundreds of multiple-choice questions, Mahestan Institute, 2006.

- [b2] **Peyman Teymoori**. *Software Engineering*, 2nd Edition, Pouran Pajouhesh publications, ISBN: 978-964-184-472-3, 2013, Iran. (in Persian)
(**Contributions**: the author. A comprehensive 300-page book on main software engineering topics and a solution manual to all the previous questions in the national graduate entrance exam. The book can be (is) used as a textbook at (some) universities in Iran.)
- [b1] Toktam Ramezanifarkhani, **Peyman Teymoori**, MohammadHosein Mansouri. *Electrical Circuits, Artificial Intelligence, and Design of Algorithms: Preparing for the National Graduate Entrance Exam*. Azadeh publications, ISBN: 978-964-501-274-6, 2008, Iran. (in Persian)
(**Contributions**: the author of the artificial intelligence section. A comprehensive 418-page book on the aforementioned topics and a solution manual to all the previous questions in the national graduate entrance exam)

BOOK SCIENTIFIC REVIEW

- [s1] Armin Shams-Baragh, *ACM ICPC World Finals 1991-2002*, Derakhshesh Publications, 2002. (in Persian)
Contributions: I was a scientific reviewer of the solutions provided by the author in the book. At the time of publication, it was the only book world-wide in which time-effective algorithmic solutions (almost always polynomial-time) to all the challenging problems of ACM International Collegiate Programming Contest World Finals have been proposed.

EDITORIALS

- [e2] Michele Polese, **Peyman Teymoori**, Jing Zhu, "Guest Editorial: Transport Layer Innovations for Future Networks," *IEEE Communications Magazine* 59(4):14-15, 2021.
- [e1] John Day, Eduard Grasa, **Peyman Teymoori**, Special Issue "Post-IP Networks: Advances on RINA and other Alternative Network Architectures". *Computers* 2020, 9, 82.

JOURNAL ARTICLES

- [j15] Kristjon Ciko, **Peyman Teymoori**, Michael, Welzl, "LGC-ShQ: Datacenter Congestion Control with Queueless Load-based ECN Marking", *Accepted, to be published in Computer Communications Review*, 2022.
(**Contributions**: designing the congestion controller)
- [j14] David Hayes, David Ros, Ozgu Alay, **Peyman Teymoori**, "Investigating predictive model-based control to achieve reliable consistent multipath mmWave communication" *Computer Communications* 194 (2022): 29-43, ISSN 0140-3664,
<https://doi.org/10.1016/j.comcom.2022.07.011>
(**Contributions**: designing the controller part)

- [j13] **Peyman Teymoori**, Toktam Ramezanifarkhani, Lars Ovar Sveen, "Transport Layer Efficiency and Security in IoT: RINA's Approach", *is being submitted to IEEE Access* (Already published as a technical report. See [r11])
(**Contributions**: the main idea, writing several sections of the article)
- [j12] **Peyman Teymoori**, Michael Welzl, David Hayes, "LGCC: A Food Chain Multi-Hop Congestion Controller", *under review in IEEE/ACM Transactions on Networking*. (Already published as a technical report. See [r9])
(**Contributions**: the main idea, writing most of the article)
- [j11] Michael Welzl, **Peyman Teymoori**, Safiqul Islam, David Hutchison, "The Future of Internet Congestion Control", in *IEEE Communications Magazine*, vol. 60, no. 9, pp. 87-92, September 2022, doi: 10.1109/MCOM.006.2200008.
(**Contributions**: writing an analysis section on the Internet rates)
- [j10] Mohammad H. Bazrafkan, Alireza Nowroozi, Toktam Ramezanifarkhani, **Peyman Teymoori**, "IAVS: Intelligent Active Network Vulnerability Scanner", in *the NISK journal*, No. 3 (2020).
(**Contributions**: editing/reviewing the paper, writing a section)
- [j9] **Peyman Teymoori**, David Hayes, Michael Welzl, Stein Gjessing. "Estimating an Additive Path Cost with Explicit Congestion Notification." in *IEEE Transactions on Control of Network Systems*, 2021. doi: 10.1109/TCNS.2021.3053179.
(**Contributions**: the main idea, writing most of the article)
- [j8] Alireza Nowroozi, **Peyman Teymoori**, Toktam Ramezanifarkhani, Mohammad Reza Besharati, and Mohammad Izadi. "A Crisis Situations Decision-Making Systems Software Development Process with Rescue Experiences." *IEEE Access* 8 (2020): 59599-59617.
(**Contributions**: involved in the writing of the article, the idea of how to develop a new software process)
- [j7] Mehdi Effatparvar, Mohammadreza Effatparvar, **Peyman Teymoori** and Naser Yazdani, "Revision of Request to Send (RTS) Threshold to Improve Efficiency of IEEE 802.11n Wireless Ad hoc Networks" *Research Journal of Applied Sciences, Engineering and Technology* 16(4):160-165, Maxwell Scientific Publication, 2019.
(**Contributions**: helping with analyzing the problem and paper writing)
- [j6] Muhammad Amin Araghizadeh, **Peyman Teymoori**, Nasser Yazdani, Saeed Safari. "An efficient medium access control protocol for WSN-UAV." *Ad Hoc Networks*, Volume 52, 2016, Pages 146-159.
(**Contributions**: coming up with an analytical solution, writing the related section, and editing the article)
- [j5] **Peyman Teymoori**, Khosrow Sohraby, and Kiseon Kim. "Fair flow control and fairness evaluation in computer networks and systems." *IEEE Transactions on Computers* 65.7 (2016): 2090-2103.
(**Contributions**: the main idea, writing most of the article)

- [j4] **Peyman Teymoori**, Khosrow Sohraby, and Kiseon Kim. "A fair and efficient resource allocation scheme for multi-server distributed systems and networks." *IEEE Transactions on Mobile Computing* 15.9 (2016): 2137-2150.
(Contributions: the main idea, writing most of the article)
- [j3] **Peyman Teymoori**, and Nasser Yazdani. "Delay-Constrained Optimized Packet Aggregation in High-Speed Wireless Networks." *Journal of Computer Science and Technology* 28.3 (2013): 525-539.
(Contributions: the main idea, writing most of the article) (extended version of [16])
- [j2] **Peyman Teymoori**, Nasser Yazdani, and Ahmad Khonsari. "DT-MAC: An efficient and scalable medium access control protocol for wireless networks." *IEEE Transactions on Wireless Communications* 12.3 (2013): 1268-1278.
(Contributions: the main idea, writing most of the article)
- [j1] MohammadReza EffatParvar, **Peyman Teymoori**, Nasser Yazdani, Ali Movaghar, and Mehdi EffatParvar. "Evaluating Effectiveness of DSDV Routing Protocol on IEEE 802.11n Wireless LANs." *International Journal of Electrical & Computer Sciences IJECS-IJENS* 10, no. 04 (2010).
(Contributions: involved in the writing of the article, evaluation)

CONFERENCE PAPERS

- [c29] **Peyman Teymoori**, Michael Welzl, "Green Networking: A Recursive Approach", *being submitted*.
- [c28] Kristjon Ciko, Michael Welzl, **Peyman Teymoori**, "Going Dark: A Software "Light Switch" for Internet Serve", *submitted to 2ND WORKSHOP ON GREEN AND SUSTAINABLE NETWORKING (GREENNET 2023)*
- [c27] Michael Welzl, Ozgu Alay, **Peyman Teymoori**, Safiqul Islam, "Reducing Green House Gas Emissions With Congestion Control", *in IAB workshop on Environmental Impact of Internet Applications and Systems, 2022*. [online] <https://github.com/intarchboard/e-impact-workshop-public/blob/main/papers/Welzel-Alay-Teymoori-Islam Reducing-Green-House-Gas-Emissions-With-Congestion-Control-v2.pdf>
- [c26] David Hayes, David Ros, Ozgu Alay, **Peyman Teymoori**, "A Model Based Approach for Reliable Consistent Multi-path mmWave Communication", *Proceedings of the 24th International ACM Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems. 2021*.
- [c25] Kristjon Ciko, Michael Welzl, **Peyman Teymoori**, "PEP-DNA: A Performance Enhancing Proxy for Deploying Network Architectures", *Accepted in IEEE 2nd Workshop on New Internetworking Protocols, Architecture and Algorithms 2021*.
(Contributions: editing the paper, coming up with evaluation scenarios)
- [c24] M. Welzl, **P. Teymoori**, S. Gjessing and S. Islam, "Follow the Model: How Recursive Networking Can Solve the Internet's Congestion Control Problems," *2020 International*

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