

Yasir Saleem

Email: yasirsaleem106@gmail.com | yasir.saleem@ieee.org
yasir_saleem.shaikh@telecom-sudparis.eu
Website: www.yasirsaleem.com

Cell #: +33-786215320

EDUCATION

PhD in Computer Science

Telecom SudParis & University Paris-Saclay, France
Since September 2016



Master of Sciences (MS) in Computer Science

Sunway University, Malaysia & Lancaster University, UK
(Dual Degree Programme)
Thesis title: A Spectrum-Aware Cluster-Based Routing Scheme
for Cognitive Radio Networks: A Simulation Study
2013 – 2015 (Pass with Distinction)



Bachelor of Sciences in Information Technology (BS-IT)

National University of Sciences and Technology, Islamabad, Pakistan
2008 – 2012



RESEARCH INTERESTS

- Wireless Communications
- Cognitive Radio Networks
- Internet of Things
- Cognitive Radio Sensor Networks
- Wireless Sensor Networks
- Unmanned Aerial Vehicles

PROFESSIONAL EXPERIENCE

Research Engineer

Service Architecture Lab, Institut Mines-Telecom, Telecom SudParis, France
(<http://servicearchitecture.wp.tem-tsp.eu>)
October 2015 – Now



Research Assistant

Sunway University, Selangor, Malaysia (www.sunway.edu.my/university)
Project Title: Indoor Positioning and Navigation
March 2015 – October 2015



Research Assistant

MIMOS Berhad, Kuala Lumpur, Malaysia (www.mimos.my)
August 2013 – February 2015



Software Developer

KNYSYS LLC (www.knysys.com)
June 2012 – May 2013



Research Intern

Cognet Lab, NUST-SECS, Pakistan (<http://cognet.seecs.nust.edu.pk/>)
July 2011- Aug 2011



ACHIEVEMENTS

- Achieved 4-Years full funded scholarship for undergraduate program from National ICT R&D Fund, Government of Pakistan
- Achieved Merit Scholarship from NUST on obtaining 3.94 GPA in 7th semester of undergraduate studies.

TECHNICAL SKILLS

Category	Tool	Expertise Level	Category	Tool	Expertise Level	
Programming Languages	C/C++	Expert	Network Simulators	QualNet	Expert	
	Python	Expert		NS-2	Expert	
	Java	Expert	Databases	MySQL	Expert	
	C#	Expert		Oracle	Intermediate	
Web Development	PHP	Expert		MS SQL	Intermediate	
	Web2Py	Expert	Miscellaneous	Ubuntu	Intermediate	
	HTML	Expert		BASH	Expert	
	CSS	Expert	AWK	Expert		
	JavaScript	Expert	Mobile development	Android	Intermediate	
	ASP.NET	Intermediate				
	JSP	Beginner				
		JSF	Beginner			

PUBLICATIONS

Patent:

- [P1] **Yasir Saleem**, Hafizal Mohamad, Nordin Ramli and Yau Kok Lim. System and Method for Cluster Based Routing for Cognitive Mesh Networks, Filed on 22 December 2014, Application No: PI 2014703918.

Journals (Total IF= 37.81):

- [J8] Ayesha Naeem, Mubashir Husain Rehmani, **Yasir Saleem**, Imran Rashid, and Noel Crespi. [Network Coding in Cognitive Radio Networks: A Comprehensive Survey](#), *IEEE Communications Surveys & Tutorials*, Volume 19, Issue 3, Pages 1945 - 1973, 2017 (ISI-Indexed, IF 2016 =17.188)
- [J7] **Yasir Saleem**, Kok-Lim Alvin Yau, Hafizal Mohamad, Nordin Ramli, Mubashir Husain Rehmani and Qiang Ni. [Cluster-based Routing Scheme using Reinforcement Learning for Cognitive Radio Networks](#), *IEEE Wireless Communications*, Volume 24, Issue 4, Pages 146 - 151, 2017 (ISI-Indexed, IF 2016 =8.972)
- [J6] **Yasir Saleem**, Kok-Lim Alvin Yau, Hafizal Mohamad, Nordin Ramli and Mubashir Husain Rehmani. [SMART: A Spectrum-Aware Cluster-based Routing Scheme for Distributed Cognitive Radio Networks](#), *Computer Networks, Elsevier*, Volume 91, Pages 196-224, 2015 (ISI-Indexed, IF 2015 =1.256)
- [J5] Athar Ali Khan, Mubashir Husain Rehmani and **Yasir Saleem**. [Neighbor Discovery in Traditional Wireless Networks and Cognitive Radio Networks: Basics, Taxonomy, Challenges and Future Research Directions](#), *Journal of Network and Computer Applications, Elsevier*, Volume 52, Pages 173-190, June 2015 (ISI-Indexed, IF 2015 =2.229).
- [J4] **Yasir Saleem**, Mubashir Husain Rehmani and Sherali Zeadally. [Integration of Cognitive Radio Technology with Unmanned Aerial Vehicles: Issues, Opportunities, and Future Research Challenges](#), *Journal of Network and Computer Applications, Elsevier*, Volume 50,

Pages 15-31, April 2015 (ISI-Indexed, IF 2015 =2.229).

- [J3] **Yasir Saleem**, Farrukh Salim and Mubashir Husain Rehmani. [Routing and Channel Selection from Cognitive Radio Network's Perspective: A Survey](#), *Computers and Electrical Engineering, Elsevier*, Volume 42, Pages 117-134, February 2015 (ISI-Indexed, IF 2015 =0.817).
- [J2] Muhammad Zubair Farooqi, Salma Malik Tabassum, Mubashir Husain Rehmani and **Yasir Saleem**. [A Survey on Network Coding: From Traditional Wireless Networks to Emerging Cognitive Radio Networks](#), *Journal of Network and Computer Applications, Elsevier*, Volume 46, Pages 166-181, November 2014 (ISI-Indexed, IF 2014 =2.229).
- [J1] **Yasir Saleem** and Mubashir Husain Rehmani. [Primary radio user activity models for cognitive radio networks: A survey](#), *Journal of Network and Computer Applications, Elsevier*, Volume 43, Pages 1-16, August 2014 (ISI-Indexed, IF 2014 =2.229).

Conference Papers:

- [C4] **Yasir Saleem**, Noel Crespi, Mubashir Husain Rehmani, Rebecca Copeland, Dina Hussein and Emmanuel Bertin. [Exploitation of Social IoT for Recommendation Services](#), In *IEEE World Forum on Internet of Things (WF-IoT)*, 12-14 Dec 2016, Reston, VA, USA, Pages 359-364.
- [C3] Sian Lun Lau, Cornelius Toh and **Yasir Saleem**. [Wi-Fi Fingerprint Localisation using Density-based Clustering for Public Spaces: A Case Study in a Shopping Mall](#), In *6th International Conference on Cloud System and Big Data Engineering (Confluence)*, 14-15 January 2016, Uttar Pradesh, India, Pages 356-360, IEEE. (**Best Paper Award**)
- [C2] **Yasir Saleem**, Kok-Lim Alvin Yau, Hafizal Mohamad, Nordin Ramli and Mubashir Husain Rehmani. [Joint Channel Selection and Cluster-based Routing Scheme based on Reinforcement Learning for Cognitive Radio Networks](#), In *2nd International Conference on Computer, Communication, and Control Technology (I4CT)*, 21-23 April 2015, Kuching, Malaysia, Pages 21-25, IEEE.
- [C1] **Yasir Saleem**, Adnan Bashir, Ejaz Ahmed, Junaid Qadir and Adeel Baig. [Spectrum-Aware Dynamic Channel Assignment in Cognitive Radio Networks](#), In *8th International Conference on Emerging Technologies (ICET)*, 8-9 Oct 2012, Islamabad, Pakistan, Pages 450-455, IEEE.

Book Chapters:

- [BC1] Yasir Saleem, Farrukh Salim and Mubashir Husain Rehmani. [Resource Management in Mobile Sink based Wireless Sensor Networks through Cloud Computing](#), *Resource Management in Mobile Computing Environments, Springer*, Pages 439-459, 2014.
- [BC2] Yasir Saleem, Farrukh Salim and Mubashir Husain Rehmani. [Integration of Cognitive Radio Sensor Networks and Cloud Computing: A Recent Trend](#), *Cognitive Radio Sensor Networks: Applications, Architectures, and Challenges, IGI Global*, Pages 288-312, 2014.
- [BC3] Yasir Saleem and Farrukh Salim. [Transport Layer for Cognitive Radio Sensor Networks](#), *Cognitive Radio Sensor Networks: Applications, Architectures, and Challenges, IGI Global*, Pages 231-257, 2014.
- [BC4] Yasir Saleem and Mubashir Husain Rehmani. [Cognitive Radio Sensor Networks](#), *Encyclopedia of Information Science and Technology, 3rd Edition, IGI Global*, Pages 6152-6159, 2014.

- [BC5] Mubashir Husain Rehmani and Yasir Saleem. [Network Simulator NS-2](#), Encyclopedia of Information Science and Technology, 3rd Edition, *IGI Global*, Pages 6249-6258, 2014.
- [BC6] Athar Ali Khan, Mubashir Husain Rehmani and Yasir Saleem. Neighbor Discovery for Cognitive Radio Networks, [Cognitive networks: applications and deployments](#), *CRC Press - Taylor & Francis Group*, 2014.
- [BC7] Muhammad Zubair Farooqi, Salma Malik Tabassum, Mubashir Husain Rehmani and Yasir Saleem. Network Coding: An optimized solution for cognitive radio networks, [Cognitive networks: applications and deployments](#), *CRC Press - Taylor & Francis Group*, 2014.
- [BC8] Yasir Saleem and Mubashir Husain Rehmani, PR Activity Model for Multimedia Communication in NS-2, [Multimedia Over Cognitive Radio Networks: Algorithms, Protocols, and Experiments](#), *CRC Press Taylor and Francis Group*, 2014.
- [BC9] Yasir Saleem, Farrukh Salim, Mubashir Husain Rehmani and Bushra Rashid. [Routing through Efficient Channel Assignment in Cognitive Radio Networks](#), Software Defined and Cognitive Radio Technologies for Dynamic Spectrum Access and Management, *IGI Global*, 2014.

PROJECTS

- 4) **Title:** Wise-IoT (Worldwide Interoperability for SEmantics IoT) (EU H2020)
Period: Since June 2016
Organization: Telecom SudParis, France
Designation: Research Engineer & PhD Candidate
Tools Used: Social IoT
Description: <http://www.wise-iot.eu>
 While the Internet of Things is addressing a multiplicity of still-emerging standards and Alliance specifications with efforts to structure them into reference architectures, the Wise-IoT project gathers lead contributors from Europe and Korea to on-going major global IoT standardisation activities with the objective to strengthen and expand emerging IoT standards and reference implementation using feedback from user-centric and context-aware pilots. Six testbeds from Europe and South Korea will be federated to implement smart city, leisure and healthcare pilots demonstrating GIoTS based applications roaming capabilities across continents. An iterative development approach is being implemented to allow requirement and architecture adjustments as well as alignment and contributions back to on-going standardisation activities through submissions in technical committees and interoperability events support. A strong plan for dissemination has been set-up and will have its peak during the trials to be run at PyeongChang Olympic and Paralympic Games.
- 3) **Title:** Indoor positioning and navigation
Period: March 2015 - October 2015
Organization: Sunway University, Malaysia
Designation: Research Assistant
Tools Used: Android, Java, Android Studio
Description: Today, indoor positioning, along with indoor navigation, is currently no longer impossible. Nevertheless, it is still an interesting and growing research area. The objective was to explore various techniques that enable unsupervised approach to learn and build patterns, commonly

known as fingerprints, that may lead to usable, or better still precise indoor positioning. After successfully positioning a person in an indoor environment, indoor navigation was performed.

- 2) **Title:** Direct Admit System for Hospital (DASH) (Web2Py web application)
Period: November 2012 – May 2013
Organization: KNYSYS LLC
Designation: Software Developer
Tools Used: Web2Py, Python, HTML, CSS, JavaScript, ExtJS, PostgreSQL

Description: www.dashadmit.com is a healthcare tool that streamlines and significantly improves the hospital direct admission process. The goal is to swiftly admit patients from an out-patient setting into a hospital. DASH was designed to speed up the patient admission process and avoid wasting valuable time and money. To achieve this goal, DASH empowers healthcare givers and associated staff of the DASH-enabled hospital.

- 1) **Title:** Think Realtime (ASP.NET web application)
Period: August 2012 – October 2012
Organization: KNYSYS LLC
Designation: Software Developer
Tools Used: ASP.NET, C#, HTML, CSS, JavaScript, JQuery, MS SQL server
Description: www.thinkrealtime.com is involved in advertising, high-frequency stock trading and machine learning. It provides its clients an infinitely scalable, fully automated system that optimizes the purchase of Real-time Bidding (RTB) enabled banner inventory exclusively on the Google Display Network, thus maximizing online display advertising effectiveness.

PROFESSIONAL ACTIVITIES

Technical Program Committee (TPC):

- [2nd International Conference on Fog and Mobile Edge Computing \(FMEC 2017\), Valencia, Spain](#)
- [1st International Conference on Fog and Mobile Edge Computing \(FMEC 2016\), Augsburg, Germany](#)
- [IEEE Mediterranean Electrotechnical Conference \(MELECON 2016\), Limassol, Cyprus](#)

Reviewer:

Journals:

- [IEEE Communications Magazine](#)
- [IEEE Internet of Things Journal](#)
- [Pervasive and Mobile Computing, Elsevier](#)
- [Ad Hoc Networks, Elsevier](#)
- [Computer Networks, Elsevier](#)
- [IEEE Communications Letters](#)
- [Journal of Network and Computer Applications](#)
- [Artificial Intelligence Review, Springer](#)
- [IEEE Access](#)
- [Wireless Networks, Springer](#)
- [International Journal of Communication Systems, Wiley](#)
- [Optimization Letters, Springer](#)
- [Computers & Electrical Engineering, Elsevier](#)
- [OPTIK, International Journal for Light and Electron Optics, Elsevier](#)

- [Ad Hoc & Sensor Wireless Networks](#)
- [International Journal of Communication Networks and Information Security \(IJCNIS\)](#)

International Conferences:

- [International Symposium on Networks, Computers and Communications \(ISNCC\) 2017](#)
- [IEEE 12th Malaysia International Conference on Communications \(MICC\) 2015](#)
- [International Wireless Communications & Mobile Computing \(IWCMC\) 2015](#)
- [IEEE Globecom 2014](#)
- [IEEE ICC 2013](#)