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Prof. Dr. Ansar-Ul-Haque Yasar

Education	Degree	Institution	Grade
	Doctorate of Engineering (Computer Science) 10/2007 to 10/2011	Katholieke Universiteit Leuven, Belgium (www.kuleuven.be)	Awarded – Aug'11
	Masters in Communication and Interactivity 8/2006 to 10/2007	Linköping University Linköping, Sweden (www.liu.se)	Awarded - 2007
	Bachelors of Computer Software Engineering 8/2001 to 7/2005	Foundation University Islamabad, Pakistan (www.fui.edu.pk)	CGPA 3.48 / 4.0
Objective	To work in a capacity that would groom and use the best of my technical knowledge, leadership qualities and managerial skills		
Professional Experience			
	11/2012 to date	Hasselt University (Transportation Research Institute)	
		Professor (Hoofddocent) Coordinator for the courses Intelligent Transportation Systems (ITS) and Transport Modeling. Apart from teaching, managing multimillion euro R&D projects acquired from the European Commission, the Belgian agencies and/or the Industries as a principle investigator.	
	10/2011 to 11/2012	Hasselt University (Transportation Research Institute)	
		Postdoctoral Researcher Working on Agent-based modeling and scalability issue for the European FP7 DATASIM project.	
	08/2017 to date	Braw Hawks LLC Oman & DroneMatrix NV Belgium	
		UAV-Tech Consultant to focus on using the UAVs to enhance the NDT techniques in the Oil & Gas sector in partnership with PDO. Furthermore, focusing on developing intrinsically-safe UAV flights over critical infrastructure using both software & hardware aspects based on deep-learning methods.	
	9/2009 to 1/2011	Katholieke Universiteit Leuven (Dept. of Computer Science)	
		Teaching Assistant for the <i>Computer Architecture and System Software</i> course, responsible for preparing and grading lab work.	
	8/2010 to 10/2010	Linköping University Sweden	
		Visiting Researcher at the Security and Networks research group for 3 months. Worked on communication optimization in large scale vehicular networks.	
	1/2007 to 4/2007	Linköping University Sweden	
		Lab Assistant for the <i>Web Programming and Interactivity</i> course, responsible for checking and grading lab work. This course was based on seven extensive lab tasks.	
	9/2005 to 6/2006	Federal Urdu University of Arts, Science and Tech Islamabad	
		Visiting Faculty Taught Intro to Telecom, Telecom Systems and Object Oriented Programming.	
	9/2005 to 6/2006	Air University Islamabad	
		Visiting Faculty Taught Introduction to Computer Programming and Object Oriented Programming.	

<p>Software Tools</p>	<p>PROGRAMMING OMNET++ (network simulator), C/C++, Java, D/HTML, GW-Basic, VC++, UML,VB, VB.Net, C Sharp, Visual Prolog</p> <p>DATABASES Oracle: SQL and PL/SQL, Oracle Developer 2000, MS SQL Server, Ms-Access, Crystal Report</p> <p>WEB DEVELOPMENT HTML, XML, ASP, ASP.Net, Java Scripting, Joomla(CMS), PHP, SOAP</p> <p>GRAPHICS OpenGL, 3D Studio Max, Adobe Photoshop, Flash MX, Adobe Premier</p> <p>TOOLS UML, Ms-Project, Ascent, ER-Win, Dream Weaver, Adobe GoLive CS</p>
<p>Professional Affiliations</p>	<p>General</p> <ul style="list-style-type: none"> • Senior Member IEEE • Associate Member Computer Society of Pakistan • Fellow British Computer Society • Registered with Pakistan Engineering Council • Member FEANI (EUR ING Title) Belgium • Member of International Human Rights Observer Pakistan <p>Position in Scientific Organizations</p> <ul style="list-style-type: none"> • Technical Expert COST Action (EU). • Technical Expert EUREKA Eurostar Framework (EU). • Program vice-Chair for the IEEE ITS conference 2018. • Program Chair International ANT conference in 2014, 2015, 2016 & 2017. • Chair/Member programme committee at ABMTRANS – 2012, 2013, 2014, 2015, 2016. • Program vice-chair / track chair ANT'13 conference (Transportation track). • Outstanding service award for being the workshop chair for ABMTRANS workshop at the International conference on ambient systems, networks and technologies (ANT), from 2013 until 2016. • Reviewer for the International HCI conference 2008. • Member programme committee at International MobileHCI conference 2009. • Reviewer for the International ICMI-MLMI conference 2009. <p>International Scientific Visits</p> <ul style="list-style-type: none"> • From 08-2010 until 10-2010: Visited Security & Networks Research Group to work on a joint collaborative project at Linkoping University, Sweden. • From 06-2017 until 08-2017: Visited Transportation Systems Lab at UTBM France for work around drones in smart cities.
<p>Research Papers / Articles</p>	<p>Academic bibliography of Ansar YASAR @ UHasselt</p> <p>2020</p> <p>JOURNAL CONTRIBUTIONS</p> <p>AWAN, Hammad; PIRDAVANI, Ali; ADNAN, Muhammad; YASAR, Ansar; WETS, Geert; BRIJS, Tom (2020) Standard freeway merge designs support safer driver behaviour compared to taper designs: a driving simulator study (2020) In: ERGONOMICS, [Article - cat: A1] Impact Factor: 2.181</p>

ADNAN, Muhammad; Gazder, Uneb; YASAR, Ansar; BELLEMANS, Tom; Kureshi, Ibad (2020) Estimation of travel time distributions for urban roads using GPS trajectories of vehicles: a case of Athens, Greece (2020) In: PERSONAL AND UBIQUITOUS COMPUTING, [Article - cat: A1] **Impact Factor: 1.735**

YASAR, Ansar; Malik, Haroon; Shakshuki, Elhadi M. (2020) Guest editorial: towards enhancing ambient systems, networks and technologies (2020) In: Journal of Ambient Intelligence and Humanized Computing, 11 (3) , p. 917 -918 [Editorial Material - cat: A2] **Impact Factor: 1.91**

YASAR, Ansar; Malik, Haroon; Shakshuki, Elhadi M. (2020) Special issue on future networks & pervasive systems (2020) In: FUTURE GENERATION COMPUTER SYSTEMS-THE INTERNATIONAL JOURNAL OF ESCIENCE, 102, p. 950 -951 [Editorial Material - cat: A2] **Impact Factor: 5.768**

FARRAG, Siham; Outay, Fatma; YASAR, Ansar; JANSSENS, Davy; KOCHAN, Bruno; Jabeur, Nafaa (2020) Toward the improvement of traffic incident management systems using Car2X technologies (2020) In: PERSONAL AND UBIQUITOUS COMPUTING, [Article - cat: A1] **Impact Factor: 1.735**

SHAKER, Muhammad; HERMANS, Elke; COPS, Veerle; VANROMPAY, Yves; ADNAN, Muhammad; MAES, Roeland; YASAR, Ansar (2020) Facilitating hikers' mobility in protected areas through smartphone app: a case of the Hoge Kempen National Park, Belgium (2020) In: PERSONAL AND UBIQUITOUS COMPUTING, [Article - cat: A1] **Impact Factor: 1.735**

Beg, Abdurrahman; Qureshi, Abdul Rahman; Sheltami, Tarek; YASAR, Ansar (2020) UAV-enabled intelligent traffic policing and emergency response handling system for the smart city (2020) In: PERSONAL AND UBIQUITOUS COMPUTING, [Article - cat: A1] **Impact Factor: 1.735**

Poniszewska-Maranda, Aneta; Matusiak, Radoslaw; Kryvinska, Natalia; YASAR, Ansar (2020) A real-time service system in the cloud (2020) In: Journal of Ambient Intelligence and Humanized Computing, 11 (3) , p. 961 -977 [Article - cat: A1] **Impact Factor: 1.91**

2019

Journal Contributions

Anwar, Raja Waseem; Zainal, Anazida; Outay, Fatma; Yasar, Ansar & Iqbal, Saleem (2019). *BTEM: Belief based trust evaluation mechanism for Wireless Sensor Networks*. In: Future Generation Computer Systems-The International Journal of eScience, 96, p. 605-616. [Article - cat: A1] **Impact Factor: 5.768**

Malik, Haroon; Yasar, Ansar-UI-Haque & Shakshuki, Elhadi M. (2019). *Towards augmenting ambient systems networks and technologies*. In: Journal of Ambient Intelligence and Humanized Computing, 10(7), p. 2493-2494. [Editorial Material - cat: A2] **Impact Factor: 1.910**

Lamotte, Olivier & Galland, Stéphane & Koukam, A. & Yasar, Ansar-UI-Haque & Shakshuki, Elhadi. (2019). Modeling Process of a Third Dimension Universe for Transportation Simulation: Application to Railway System. *IEEE Intelligent Transportation Systems Magazine*. 10.1109/MITS.2019.2939110. **Impact Factor: 3.294**

Sodhro, A. H., Obaidat, M. S., Abbasi, Q. H., Pace, P., Pirbhulal, S., Yasar, A.-U.-H., Fortino, G., Imran, M. A. and Qaraqe, M. (2019) Quality of service optimization in IoT driven intelligent transportation system. *IEEE Wireless Communications*, (**Impact Factor: 10.356**)

Al-Roubaiey, Anas & Sheltami, Tarek & Mahmoud, Ashraf & Yasar, Ansar. (2019). EATDDS:

Energy-aware middleware for wireless sensor and actuator networks. Future Generation Computer Systems. 96. 10.1016/j.future.2019.01.060. **Impact Factor: 5.768**

Mualla, Yazan & Najjar, Amro & Daoud, Alaa & Galland, Stéphane & Nicolle, Christophe & Yasar, Ansar-UI-Haque & Shakshuki, Elhadi. (2019). Agent-Based Simulation of Unmanned Aerial Vehicles in Civilian Applications: A Systematic Literature Review and Research Directions. Future Generation Computer Systems. 10.1016/j.future.2019.04.051. **Impact Factor: 5.768**

Hassan Afridi, Ahmad & Yasar, Ansar & Shakshuki, Elhadi. (2019). Facilitating research through serendipity of recommendations. Journal of Ambient Intelligence and Humanized Computing. 10.1007/s12652-019-01354-7. **Impact Factor: 1.910**

Bouyahia, Zied & Haddad, Hedi & Jabeur, Nafaâ & Yasar, Ansar. (2019). A two-stage road traffic congestion prediction and resource dispatching toward a self-organizing traffic control system. Personal and Ubiquitous Computing. 1-12. 10.1007/s00779-019-01212-5. **Impact Factor: 1.735**

M. Asiri, T. Sheltami, L. Al-Awami and A. Yasar, "A Novel Approach for Efficient Management of Data Lifespan of IoT Devices," in *IEEE Internet of Things Journal*. doi: 10.1109/JIOT.2019.2955099. **Impact Factor: 9.515**

Proceedings Papers

Mualla, Yazan; Najjar, Amro; Galland, Stephane; Nicolle, Christophe; Tchappi, Igor Haman; Yasar, Ansar-UI-Haque & Framling, Kary (2019). *Between the Megalopolis and the Deep Blue Sky: Challenges of Transport with UAVs in Future Smart Cities*.

In: AAMAS '19: PROCEEDINGS OF THE 18TH INTERNATIONAL CONFERENCE ON AUTONOMOUS AGENTS AND MULTIAGENT SYSTEMS, ASSOC COMPUTING MACHINERY,p. 1649-1653. (AAMAS Conference proceedings, 19) [Full Paper - cat: C1]

2018

Journal Contribution

Adnan, Muhammad; Altaf, S.; Bellemans, Tom; Yasar, Ansar-UI-Haque & Shakshuki, E. (2018). *Last-mile travel and bicycle sharing system in small/medium sized cities: user's preferences investigation using hybrid choice model*.

In: Journal of Ambient Intelligence and Humanized Computing,. [Article - cat: A1] **Impact Factor: 1.910**

Vuurstaek, Jan; Cich, Glenn; Knapen, Luk; Ectors, Wim; Yasar, Ansar-UI-Haque; Bellemans, Tom & Janssens, Davy (2018). *GTFS Bus Stop Mapping to the OSM Network*.

In: Future generation computer systems,. [Article - cat: A1] **Impact Factor: 5.768**

Ahmed, Shiraz; Adnan, Muhammad; Janssens, Davy; Brattich, E.; Yasar, Ansar-UI-Haque; Kumar, P. & di Sabatino, S. (2018). *Estimating pro-environmental potential for the development of mobility-based informational intervention: a data-driven algorithm*.

In: Personal and Ubiquitous Computing,. [Article - cat: A1] **Impact Factor: 1.735**

Malik, Haroon; Yasar, Ansar-UI-Haque & Shakshuki, Elhadi M. (2018). *Innovations for future systems*.

In: JOURNAL OF AMBIENT INTELLIGENCE AND HUMANIZED COMPUTING, 9(1), p. 1-2.

Proceedings Paper

Khan, Muhammad Arsalan; Ectors, Wim; Bellemans, Tom; Ruichek, Yassine; Yasar, Ansar-UI-Haque; Janssens, Davy & Wets, Geert (2018). *Unmanned Aerial Vehicle-based Traffic Analysis: A Case Study to Analyze Traffic Streams at Urban Roundabouts*.

In: The 9th International Conference on Ambient Systems, Networks and Technologies (ANT 2018), Elsevier B.V.,p. 636-643. (Procedia Computer Science, 130) [Full Paper - cat: C1]

Ahmed, Shiraz; Adnan, Muhammad; Janssens, Davy; Yasar, Ansar-UI-Haque; Kumar, Prashant & Shakshuki, Elhadi M. (2018). *Pro-Environmental Potential in Activity-Travel Routine of Individuals:A Data Driven Computational Algorithm*.

In: Shakshuki, Elhadi M.; Yasar, Ansar-UI-Haque (Ed.). The 9th International Conference on Ambient Systems, Networks and Technologies (ANT 2018) / The 8th International Conference on Sustainable Energy Information Technology (SEIT-2018) / Affiliated Workshops, Elsevier B.V.,p. 541-548. (Procedia Computer Science, 130) [Full Paper - cat: C1]

Raza, Waseem; Javaid, Nadeem; Nasir, Hina; Imran, Muhammad & Yasar, Ansar-UI-Haque (2018). *Buffer Occupancy Based Link Prioritization for Cooperative Wireless Networks*.

In: 2018 14TH INTERNATIONAL WIRELESS COMMUNICATIONS & MOBILE COMPUTING CONFERENCE (IWCMC), IEEE,p. 850-855. [Full Paper - cat: C1]

Javaid, Nadeem; Karim, Obaida Abdul; Sher, Arshad; Imran, Muhammad; Yasar, Ansar-UI-Haque & Guizani, Mohsen (2018). *Q-Learning for energy balancing and avoiding the void hole routing protocol in underwater sensor networks*.

In: 2018 14TH INTERNATIONAL WIRELESS COMMUNICATIONS & MOBILE COMPUTING CONFERENCE (IWCMC), IEEE,p. 702-706. (International Wireless Communications and Mobile Computing Conference) [Full Paper - cat: C1]

Ahmed, Shiraz; Adnan, Muhammad; Janssens, Davy; Yasar, Ansar & Wets, Geert (2018). *Air Quality Based Informational Intervention Framework To Promote Healthy And Active School Travel*.

In: The 9th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN-2018) / The 8th International Conference on Current and Future Trends of Information and Communication Technologies in Healthcare (ICTH-2018) / Affiliated Workshops, Elsevier,p. 382-389. (Procedia Computer Science, 141) [Full Paper - cat: C1]

Chaabani, Hazar; Werghi, Naoufel; Kamoun, Faouzi; Taha, Bilal; Outay, Fatma & Yasar, Ansar-UI-Haque (2018). *Estimating meteorological visibility range under foggy weather conditions: A deep learning approach*.

In: Shakshuki, E Yasar, A (Ed.). 9TH INTERNATIONAL CONFERENCE ON EMERGING UBIQUITOUS SYSTEMS AND PERVASIVE NETWORKS (EUSPN-2018) / 8TH INTERNATIONAL CONFERENCE ON CURRENT AND FUTURE TRENDS OF INFORMATION AND COMMUNICATION TECHNOLOGIES IN HEALTHCARE (ICTH-2018), ELSEVIER SCIENCE BV,p. 478-483. [Full Paper - cat: C1]

2017

Journal Contribution

Syed, Wasim Sohail Hashmi; Jabbar, Ambreen; Shaikh, Maqbool Uddin; Yasar, Ansar-UI-Haque; Janssens, Davy & Galland, Stephane (2017). *A new traffic route analyzer for commuter's guidance in developing countries: application study in Islamabad, Pakistan*. In: JOURNAL OF AMBIENT INTELLIGENCE AND HUMANIZED COMPUTING, 8(3), p. 395-404. [Article - cat: A1] – **IF: 1.588**

Usman, Muhammad; Knapen, Luk; Yasar, Ansar; Bellemans, Tom; Janssens, Davy & Wets, Geert (2017). *Modeling value of time for trip chains using sigmoid utility*. In: Personal and Ubiquitous Computing, p. 1-13. [Article - cat: A1] – **IF: 2.395**

Rai, Aakash C.; Kumar, Prashant; Pilla, Francesco; Skouloudis, Andreas N.; Di Sabatino, Silvana; Ratti, Carlo; Yasar, Ansar & Rickerby, David (2017). *End-user perspective of low-cost sensors for outdoor air pollution monitoring*. In: SCIENCE OF THE TOTAL ENVIRONMENT, 607, p. 691-705. [Review - cat: A1] – **IF: 4.90**

Usman, Muhammad; Knapen, Luk; Yasar, Ansar; Bellemans, Tom; Janssens, Davy & Wets, Geert (2017). *Optimal recharging framework and simulation for electric vehicle fleet*. In: Future generation computer systems, p. 1-13. [Article - cat: A1] – **IF: 3.99**

Malik, Haroon; Yasar, Ansar-UI-Haque & Shakshuki, Elhadi M. (2017). *Methodologies for driving ambient systems*. In: JOURNAL OF AMBIENT INTELLIGENCE AND HUMANIZED COMPUTING, 8(3), p. 313-314. [Editorial Material - cat: A2] – **IF: 1.588**

Proceedings Paper

Vuurstaek, Jan; Cich, Glenn; Knapen, Luk; Yasar, Ansar; Bellemans, Tom & Janssens, Davy (2017). *GTFS Bus Stops Mapping to the OSM Network*. In: Procedia Computer Science, p. 50-58. (Procedia Computer Science, 109) [Full Paper - cat: C1]

Cich, Glenn; Knapen, Luk; Maciejewski, Michał; Yasar, Ansar-UI-Haque; Bellemans, Tom & Janssens, Davy (2017). *Modeling Demand Responsive Transport using SARL and MATSim*. In: Procedia Computer Science, Elsevier B.V., p. 1074-1079. (Procedia Computer Science, 109) [Full Paper - cat: C1]

Cich, Glenn; Galland, S.; Knapen, Luk; Yasar, Ansar-UI-Haque; Bellemans, Tom & Janssens, Davy (2017). *Addressing the Challenges of Conservative Event Synchronization for the SARL Agent-Programming Language*. In: Demazeau, Y.; Davidsson, P.; Bajo, J.; Vale, Z. (Ed.). *Advances in Practical Applications of Cyber-Physical Multi-Agent Systems: The PAAMS Collection*, Springer, p. 31-42. (Lecture Notes in Computer Science, 10349) [Full Paper - cat: C1]

Conference Material

Cich, Glenn; Galland, Stéphane; Knapen, Luk; Yasar, Ansar-UI-Haque; Bellemans, Tom & Janssens, Davy (2017). *Addressing the Challenges of Conservative Event Synchronization for the SARL Agent-Programming Language*. In: PAAMS 2017: 15th International Conference on Practical Applications of Agents and Multi-Agent Systems, Porto, Portugal, 21-26/06/2017. [Presentation - cat: C2]

Cich, Glenn; Knapen, Luk; Maciejewski, Michal; Yasar, Ansar-UI-Haque; Bellemans, Tom & Janssens, Davy (2017). *Modeling Demand Responsive Transport using SARL and MATSim*. In: International Workshop on Agent-based Modeling and Applications with SARL (SARL-17), Madeira, Portugal, 16-19 May 2017. [Presentation - cat: C2]

2016

Journal Contribution

Hussain, Iftikhar; Knapen, Luk; Yasar, Ansar; Bellemans, Tom; Janssens, Davy & Wets, Geert (2016). *Negotiation and coordination in carpooling: an agent-based simulation model*. In: TRANSPORTATION RESEARCH RECORD 2542, p. 92-101. [Article - cat: A1]

Hussain, Iftikhar; Knapen, Luk; Galland, S.; Yasar, Ansar-UI-Haque; Bellemans, Tom; Janssens, Davy & Wets, Geert (2016). *Organizational-based model and agent-based simulation for long-term carpooling*. In: FUTURE GENERATION COMPUTER SYSTEMS-THE INTERNATIONAL JOURNAL OF ESCIENCE, 64; pag. 125-139. [Article - cat: A1 - Validation: ecoom 2017] – IF: 3.99

Yasar, Ansar-UI-Haque; Galland, Stephane & Shakshuki, Elhadi (2016). *Special Issue: Emerging, Ambient and Ubiquitous Systems 2015*. In: FUTURE GENERATION COMPUTER SYSTEMS-THE INTERNATIONAL JOURNAL OF ESCIENCE, 64, p. 75-77. [Editorial Material - cat: A2] - IF: 3.99

Yasar, Ansar-UI-Haque; Malik, Haroon & Shakshuki, Elhadi M. (2016). *New advances in ambient information systems*. In: JOURNAL OF AMBIENT INTELLIGENCE AND HUMANIZED COMPUTING, 7 (3), p. 301-303. [Editorial Material - cat: A2] - IF: 1.588

Yasar, Ansar-UI-Haque; Malik, Haroon; Shakshuki, Elhadi M. & Khan, Zahoor (2016). *Emerging technologies in ambient systems*. In: Journal of ambient intelligence and humanized computing, 7(4), p. 455-456. [Editorial Material - cat: A2] - IF: 1.588

Proceedings Paper

Usman, Muhammad; Knapen, Luk; Yasar, Ansar; Bellemans, Tom; Janssens, Davy & Wets, Geert (2016). *A coordinated framework for optimized charging of EV fleet in smart grid*. In: Shakshuki, Elhadi (Ed.). The 11th International Conference on Future Networks and Communications (FNC 2016) / The 13th International Conference on Mobile Systems and Pervasive Computing (MobiSPC 2016) / Affiliated Workshops, Elsevier B.V, p. 332-339 (Art N° 94). (Procedia Computer Science) [Full Paper - cat: C1 - Validation: ecoom 2017]

Fazal Abbas Baqueri, Syed; Ectors, Wim; Shabbar Ali, M.; Knapen, Luk; Janssens, Davy & Yasar, Ansar-UI-Haque (2016). *Estimation of Value of Time for a Congested Network – A case study of the National Highway, Karachi*. In: Procedia Computer Science, p. 262-269. (Procedia Computer Science, 83) [Full Paper - cat: C1 - Validation: ecoom 2017]

Cich, Glenn; Vuurstaek, Jan; Knapen, Luk; Yasar, Ansar-UI-Haque; Bellemans, Tom &

Janssens, Davy (2016). *Data Preparation to Simulate Public Transport in Micro-Simulations using OSM and GTFS*.

In: *Procedia Computer Science* (83), p. 50-57. (Procedia Computer Science, 83) [Full Paper - cat: C1 - Validation: ecoom 2017]

Lombard, Alexandre; Hao, Xuguang; Abbas-Turki, Abdeljalil; El Moudni, Abdellah; Galland, Stephane & Yasar, Ansar-UI-Haque (2016). *Lateral Control of an Unmanned Car Using GNSS Positioning in the Context of Connected Vehicles*.

In: Shakshuki, E (Ed.). *Proceedings of the 7th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN 2016)*, ELSEVIER SCIENCE BV,p. 148-155. (Procedia Computer Science, 98) [Full Paper - cat: C1 - Validation: ecoom 2017]

Usman, Muhammad; Knapen, Luk; Yasar, Ansar-UI-Haque; Bellemans, Tom; Janssens, Davy & Wets, Geert (2016). *Modelling value of time for trip chains in daily schedules*.

In: Shakshuki, Elhadi (Ed.). *7TH INTERNATIONAL CONFERENCE ON AMBIENT SYSTEMS, NETWORKS AND TECHNOLOGIES (ANT 2016) / THE 6TH INTERNATIONAL CONFERENCE ON SUSTAINABLE ENERGY INFORMATION TECHNOLOGY (SEIT-2016) / AFFILIATED WORKSHOPS*, ELSEVIER SCIENCE BV,p. 615-620. (Procedia Computer Science, 83) [Full Paper - cat: C1 - Validation: ecoom 2017]

Conference Material

Cich, Glenn; Vuurstaek, Jan; Knapen, Luk; Yasar, Ansar-UI-Haque; Bellemans, Tom & Janssens, Davy (2016). *Data Preparation to Simulate Public Transport in Micro-Simulations using OSM and GTFS*.

In: *The 7th International Conference on Ambient Systems, Networks and Technologies (ANT-2016)*, Madrid, Spain, 23-26/05/2016. [Presentation - cat: C2]

2015

Journal Contribution

KNAPEN, Luk; Hartman, Irith Ben-Arroyo; Keren, Daniel; YASAR, Ansar; CHO, Sungjin; BELLEMANS, Tom; JANSSENS, Davy & WETS, Geert (2015). *Scalability issues in optimal assignment for carpooling*.

In: *JOURNAL OF COMPUTER AND SYSTEM SCIENCES*, 81 (3), p. 568-584. [Article - cat: A1 - Validation: ecoom 2016] – IF: 1.678

Yasar, Ansar-UI-Haque; Malik, Haroon & Khan, Zahoor (2015). *Mobile Sensor Networks Applications and Confidentiality*.

In: *MOBILE INFORMATION SYSTEMS*, 2015, (ART N° 893438). [Editorial Material - cat: A2] – IF: 0.849

YASAR, Ansar; Khan, Zahoor & Shakshuki, Elhadi M. (2015). *Guest Editorial: new developments in ambient information systems*.

In: *Journal of Ambient Intelligence and Humanized Computing*, 6 (3), p. 295-296. [Editorial Material - cat: A2] – IF: 1.588

Imran, Muhammad; Ullah, Sana; Yasar, Ansar-UI-Haque; Vasilakos, Athanasios & Hussain, Sajid (2015). *Enabling Technologies for Next-Generation Sensor Networks: Prospects, Issues, Solutions, and Emerging Trends*.

In: *INTERNATIONAL JOURNAL OF DISTRIBUTED SENSOR NETWORKS*, 2015, (ART N°

634268). [Editorial Material - cat: A2] – IF: 1.239

Malik, Haroon; Yasar, Ansar & Shakshuki, Elhadi M. (2015). *Guest editorial: new developments in future networked systems*.

In: JOURNAL OF AMBIENT INTELLIGENCE AND HUMANIZED COMPUTING, 6 (4), p. 375-376. [Editorial Material - cat: A2] – IF: 1.588

Proceedings Paper

HUSSAIN, Iftikhar; KNAPEN, Luk; Galland, S.; YASAR, Ansar; BELLEMANS, Tom; JANSSENS, Davy & WETS, Geert (2015). *Agent-based Simulation Model for Long-term Carpooling: Effect of Activity Planning Constraints*.

In: Procedia Computer Science 52, p.412-419. (Procedia Computer Science, 52) [Full Paper - cat: C1 - Validation: ecoom 2016]

Usman, Muhammad; Fraile-Ardanuy, J.; Knapen, Luk; Yasar, Ansar; Bellemans, Tom; Janssens, Davy & Wets, Geert (2015). *Relationship between spatio-temporal electricity cost variability and e-mobility*.

In: Procedia Computer Science, p. 772-779. (Procedia Computer Science, 52) [Full Paper - cat: C1 - Validation: vabb 2017]

Usman, Muhammad; Fraile-Ardanuy, Jess; Knapen, Luk; Yasar, Ansar-UI-Haque; Bellemans, Tom; Janssens, Davy & Wets, Geert (2015). *Relationship between spatio-temporal electricity cost variability and e-mobility*.

In: Shakshuki, E. (Ed.). 6TH INTERNATIONAL CONFERENCE ON AMBIENT SYSTEMS, NETWORKS AND TECHNOLOGIES (ANT-2015), THE 5TH INTERNATIONAL CONFERENCE ON SUSTAINABLE ENERGY INFORMATION TECHNOLOGY (SEIT-2015), p. 772-779. (Procedia Computer Science, 52) [Full Paper - cat: C1 - Validation: ecoom 2016]

Abed, Omar; Bellemans, Tom; Janssens, Gerrit K.; Janssens, Davy; Yasar, Ansar-UI-Haque & Wets, Geert (2015). *An Agent Based Simulated Goods Exchange Market; A Prerequisite For Freight Transport Modeling*.

In: Shakshuki, E. (Ed.). The 6th International Conference on Ambient Systems, Networks and Technologies (ANT-2015), the 5th International Conference on Sustainable Energy Information Technology (SEIT-2015), p. 622-629. (Procedia Computer Science, 52) [Full Paper - cat: C1 - Validation: ecoom 2016]

Ahmar, Absar-UI-Haque & Yasar, Ansar-UI-Haque (2015). *Estimating Nonlinear Parameters Present In OFDM-based System Using Non-Linear Least Squares*.

In: Procedia Computer Science, p. 128-134. (Procedia Computer Science, 63) [Full Paper - cat: C1 - Validation: ecoom 2017]

Usman, Muhammad; Knapen, Luk; Kochan, Bruno; Yasar, Ansar; Bellemans, Tom; Janssens, Davy & Wets, Geert (2015). *A framework for electric vehicle charging strategy optimization tested for travel demand generated by an activity-based model*.

In: 2014 International Conference on Connected Vehicles and Expo (ICCVE), p. 306-311. [Full Paper - cat: C1 - Validation: vabb 2017]

2014

Journal Contribution

Galland, Stephane; Knapen, Luk; Yasar, Ansar-UI-Haque; Gaud, Nicolas; Janssens, Davy; Lamotte, Olivier; Koukam, Abderrafiaa & Wets, Geert (2014). *Multi-agent simulation of individual mobility behavior in carpooling*.

In: TRANSPORTATION RESEARCH PART C-EMERGING TECHNOLOGIES, 45, p. 83-98. [Article - cat: A1 - Validation: ecoom 2015]

Abed, Omar; BELLEMANS, Tom; JANSSENS, Gerrit; Yasar, Ansar-UI-Haque; JANSSENS, Davy & WETS, Geert (2014). *A Micro Simulated and Demand Driven Supply Chain Model To Calculate Regional Production and Consumption Matrices*.

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Book

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	<p>Computing, Jan-16, 2012, Springer-Verlag. (Impact Factor: 1.588 – ISI Indexed)</p> <p>[P2] Bellemans, Tom; Bothe, Sebastian; Cho, Sungjin; Giannotti, Fosca; Janssens, Davy; Knapen, Luk; Körner, Christine; May, Michael; Nanni, Mirco; Pedreschi, Dino, "An agent-based model to evaluate carpooling at large manufacturing plants", <i>Procedia Computer Science</i>, 10, 1221-1227, 2012, Elsevier.</p> <p>[P3] Yasar, A., Paridel, K., Preuveneers, D., Berbers, Y., "When Efficiency Matters: Towards Quality of Context-aware Peers for Adaptive Communication in VANETs", in <i>Proceedings of IEEE IV 2011</i>.</p> <p>[P4] Paridel, K., Yasar, A., Vanrompay, Y., Preuveneers, D., Berbers, Y., "Teamwork on the Road: Efficient Collaboration in VANETs with Context-based Grouping", <i>Procedia Computer Science</i>, 48-57, 2011, Elsevier.</p> <p>[P5] Yasar, A., Muhammad, N., Preuveneers, D., Berbers, Y., "End-to-End Communication Modelling for Large Scale Vehicular Networks using AADL", in <i>Proceedings of 17th International Conference on Software and Internet Technologies 2011</i>.</p> <p>[P6] Yasar, A., Preuveneers, D., Berbers, Y., "Evaluation framework for adaptive context-aware routing in large scale mobile peer-to-peer systems", <i>Peer-to-Peer Networking and Applications</i>, Springer vol. 3, 2010.</p> <p>[P7] Yasar, A., Preuveneers, D., Berbers, Y., "Modelling and simulating large scale vehicular networks for smart context-aware telematic applications" in <i>Modelling, Simulation and Optimization</i>, Austria: IN-TECH Publishers, 2010, ISBN 978-953-7619-36-7, pp. 509-530.</p> <p>[P8] Yasar, A., Vanrompay, Y., Preuveneers, D., Berbers, Y., "Optimizing information dissemination in large scale mobile peer-to-peer networks using context-based grouping", in <i>13th International IEEE Conference on Intelligent Transportation Systems (19-22 Sep 2010, Madeira Island, Portugal)</i>, 2010.</p> <p>[P9] Yasar, A., Preuveneers, D., Berbers, Y., Mahmud, N., Luyten, K., Coninx, K., "Where people and cars meet: Social interactions to improve information sharing in large scale vehicular networks", in <i>Proceedings of the 2010 ACM Symposium on Applied Computing (22-26 March 2010, Sierre)</i>, 2010.</p> <p>[P10] Mahmud, N., Aksenov, P., Yasar, A., Preuveneers, D., Luyten, K., Coninx, K., Berbers, Y., "Geo-social interaction: Context-aware help in large scale public spaces", in <i>LNCS (10-12 Nov 2010, Malaga, Spain)</i>, de Ruyter, B. Eds., 2010, pp. 107-116.</p> <p>[P11] Vanrompay, Y., Yasar, A., Preuveneers, D., Berbers, Y., "Context-aware optimized information dissemination in large scale vehicular networks", in (23-25 June 2010, Samos, Greece), 2010.</p> <p>[P12] Yasar, A., Preuveneers, D., Berbers, Y., Bhatti, G., "Best practices for software security: An overview", in <i>12th IEEE International Multitopic Conference (IEEE INMIC 2008) (23-24 Dec 2008, Karachi)</i>, 2008.</p> <p>[P13] Yasar, A., Berbers, Y., Preuveneers, D., "A computational analysis of driving variations on distributed multiuser driving simulators", in <i>IASTED International Conference on Modelling and Simulation (26-28 May 2008, Quebec, Canada)</i>, 2008.</p> <p>[P14] Yasar, A., Preuveneers, D., Berbers, Y., "Adaptive context mediation in dynamic and large scale vehicular networks using relevance backpropagation", in <i>Sensor, Ad Hoc and Mesh Network workshop - Mobility Conference 2008 (10-12 September 2008, Taiwan)</i>, 2008.</p> <p>[P15] Preuveneers, D., Yasar, A., Berbers, Y., "Architectural styles for opportunistic mobile communication: Requirements and design patterns", in <i>Mobility conference 2008 (10-12 September 2008, Taiwan)</i>, 2008.</p> <p>[P16] Yasar, A., "Enhancing experience prototyping by the help of mixed-fidelity prototypes", in <i>4th international conference on mobile technology, applications, and systems (10-12 September 2007, Singapore)</i>, 2007.</p> <p>[P17] Yasar, A., Ansari, M., Farooqui, S., "Low cost solution for location determination of mobile nodes in a wireless local area network", in (14-16 June, 2006, Hollywood, California), 2006.</p> <p>[P18] Yasar, A., Preuveneers, D., Berbers, Y., "A scalable context-aware solution for inter-vehicle communication", <i>3rd ERCIM Workshop on eMobility (27-28 May 2009, Enschede)</i>, 2009.</p>
<p>Research Tasks</p>	<ul style="list-style-type: none"> • Technical Expert COST Action (EU). • Technical Expert EUREKA Eurostar Framework (EU). • Program vice-Chair for the IEEE ITS conference 2018. • Program Chair International ANT conference in 2014, 2015, 2016 & 2017. • Chair/Member programme committee at ABMTRANS – 2012, 2013, 2014, 2015, 2016. • Program vice-chair / track chair ANT'13 conference (Transportation track).

	<ul style="list-style-type: none"> • Outstanding service award for being the workshop chair for ABMTRANS workshop at the International conference on ambient systems, networks and technologies (ANT), from 2013 until 2016. • Reviewer for the International HCI conference 2008. • Member programme committee at International MobileHCI conference 2009. • Reviewer for the International ICMI-MLMI conference 2009.
Research Work	<p><u>Ph.D. Research</u></p> <p>Context-based Communication in Large Scale Vehicular Networks.</p> <p>Details: Efficient delivery of information in vehicular networks is crucial for the creation of useful and usable applications that need to cope with nomadic large-scale environments. Context-awareness is often a key to improve efficiency of a vehicle network since it allows making informed decisions on the data routing, data locality and data necessity for different moving objects. We propose context-aware routing and filtering strategies to optimize the information flow between the nodes in the networks.</p> <p>This work was a part of the CoLaSue project under the supervision of Prof. Yolande Berbers at K.U. Leuven.</p> <p><u>Masters Research</u></p> <p>A Computational Analysis of Driving Variations in a Distributed Simulated Driving Environment.</p> <p>Details: The research was conducted at the Linköping University (LiU) in the Cognitive Engineering group. The work describes and discusses the possible driving variations at T-intersections. In this study we analyzed various factors which may influence the driving behavior.</p> <p>Completed under the Supervision of Prof. Dr. Arne Jonsson and Dr. Rego Granlund, LiU. This was a funded project by Autoliv Research, Saab and Volvo Sweden.</p> <p><u>Bachelors Research Project</u></p> <p>Location Determination of Mobile Nodes in a Wireless Network using Microsoft .NET Platform.</p> <p>Implementation Details: Implemented using C Sharp, Visual Basic and SQL Server. It basically captures all the wireless clients in a wireless network and determines its location. To verify it I have deployed it in a university to determine location of a mobile node using calibrated data. It also checks for the location using triangulation.</p>
Projects	<ul style="list-style-type: none"> • Developed evaluation framework for Large Scale Vehicular Networks in OMNET++ (a discrete event based network simulator) at K.U. Leuven, Belgium. • Designed and Developed Brain Air Database Management System in Database Technology Course at Linköping University (LiU) Sweden. • Analyzed Biometric Identification System in Computer Security Course at LiU Sweden. • Implemented Virtual Whiteboard using Java. • Developed the Game of Checkers using C/C++ (Non AI). • Developed the Single Player Game of Checkers using VC++ (with AI). • Multithreaded File Sharing / Transfer Software implemented using Java. • Implemented Scheduling Algorithm's using C/C++. • Implemented Multilevel Feedback Queuing model in XINU. • Designed & Developed Independent path generation through Cyclomatic Complexity Algorithm from an adjacency matrix using VC++.
Language Skills	<ul style="list-style-type: none"> ▪ English Fluency in speaking, reading and writing. (CEFR: C1) ▪ Swedish Completed level 1 from LiU Sweden. (CEFR: A2) ▪ Dutch Completed level 6. (CEFR: B1/B2) ▪ Urdu Fluency in speaking, reading and writing. (CEFR: C2)