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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 (Docent) for the courses Intelligent Transportation Systems (ITS), Transport Modeling and Study Visit & International Topics.	
	10/2011 to date	Hasselt University (Transportation Research Institute)	
		Postdoctoral Researcher Working on Agent-based modeling and scalability issue for the European FP7 DATASIM project.	
	10/2010 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.	
	9/2009 to 1/2010	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.	
	7/2004 to 10/2004	Softtek Systems Pvt. Ltd Islamabad	
		Software Engineering Internee Worked on many live projects, maintained their website and network.	
	2/2003 to 5/2003	Petrocon Pvt Ltd. Islamabad	
		Database Developer Automated Chart of Accounts for Petrocon Pvt. Ltd using Oracle 8 and Developer 2000.	

Software Tools	PROGRAMMING OMNET++ (network simulator), C/C++, Java, D/HTML, GW-Basic, VC++, UML,VB, VB.Net, C Sharp, Visual Prolog DATABASES Oracle: SQL and PL/SQL, Oracle Developer 2000, MS SQL Server, Ms-Access, Crystal Report WEB DEVELOPMENT HTML, XML, ASP, ASP.Net, Java Scripting, Joomla(CMS), PHP, SOAP GRAPHICS OpenGL, 3D Studio Max, Adobe Photoshop, Flash MX, Adobe Premier TOOLS UML, Ms-Project, Ascent, ER-Win, Dream Weaver, Adobe GoLive CS
Professional Affiliations	<ul style="list-style-type: none"> • Member IEEE and ACM • Associate Member Computer Society of Pakistan • Registered with Pakistan Engineering Council • Member FEANI (EUR ING Title) Belgium • Member of International Human Rights Observer Pakistan
Research Papers / Articles	<p>[P1] Knapen, Luk; Yasar, Ansar; Cho, Sungjin; Keren, Daniel; Dbai, Abed Abu; Bellemans, Tom; Janssens, Davy; Wets, Geert; Schuster, Assaf; Sharfman, Izchak, "Exploiting graph-theoretic tools for matching in carpooling applications", Journal of Ambient Intelligence and Humanized Computing,5,3,393-407,2014, Springer Berlin Heidelberg.</p> <p>[P2] Galland, Stéphane; Knapen, Luk; Yasar, Ansar-UI-Haque; Gaud, Nicolas; Janssens, Davy; Lamotte, Olivier; Koukam, Abderrafiaa; Wets, Geert, "Multi-agent simulation of individual mobility behavior in carpooling", Transportation Research Part C: Emerging Technologies, 2014, Pergamon.</p> <p>[P3] KNAPEN, Luk; YASAR, Ansar; CHO, Sungjin; BELLEMANS, Tom, "Agent-based modeling for carpooling", 2014, Information Science Reference (an imprint of IGI Global).</p> <p>[P4] Syed, Wasim Hashmi; Yasar, Ansar; Janssens, Davy; Wets, Geert, "Analyzing the Real Time Factors: Which Causing the Traffic Congestions and Proposing the Solution for Pakistani City", Procedia Computer Science, 32, 413-420, 2014, Elsevier.</p> <p>[P5] Hartman, Irith Ben-Arroyo; Keren, Daniel; Dbai, Abed Abu; Cohen, Elad; Knapen, Luk; Yasar, Ansar-UI-Haque; Janssens, Davy, "Theory and Practice in Large Carpooling Problems", Procedia Computer Science,32,339-347,2014, Elsevier.</p> <p>[P6] Knapen, Luk; Usman, Muhammad; Yasar, Ansar; Bellemans, Tom; Janssens, Davy; Wets, Geert, "Framework to evaluate rescheduling due to unexpected events in an activity-based model",2013,Transportation Research Board.</p> <p>[P7] Cho, Sungjin; Yasar, Ansar-UI-Haque; Knapen, Luk; Patil, Bharat; Bellemans, Tom; Janssens, Davy; Wets, Geert, "Social networks in agent-based models for carpooling", 2013.</p> <p>[P8] Galland, Stéphane; Gaud, Nicolas; Yasar, Ansar-UI-Haque; Knapen, Luk; Janssens, Davy; Lamotte, Olivier, "Simulation model of carpooling with the janus multiagent platform", Procedia Computer Science,19,860-866,2013,Elsevier.</p> <p>[P9] Cho, Sungjin; Kang, Jeon-Young; Yasar, Ansar-UI-Haque; Knapen, Luk; Bellemans, Tom; Janssens, Davy; Wets, Geert; Hwang, Chul-Sue, "An Activity-based Carpooling Microsimulation using Ontology", Procedia Computer Science,19,48-55,2013,Elsevier.</p> <p>[P10] Knapen, Luk; Keren, Daniel; Yasar, Ansar-UI-Haque; Cho, Sungjin; Bellemans, Tom; Janssens, Davy; Wets, Geert, "Estimating scalability issues while finding an optimal assignment for carpooling", Procedia Computer Science,19,372-379,2013, Elsevier.</p> <p>[P11] Abed, Omar; Bellemans, Tom; Janssens, Gerrit; Patil, Bharat; Yasar, Ansar; Janssens, Davy; Wets, Geert,"A Micro Simulated and Demand Driven Supply Chain Model To Calculate Regional Production and Consumption Matrices", Procedia Computer Science,19,,404-411,2013, Elsevier.</p> <p>[P12] Janssens, Davy, Ansar Yasar, Luk Knapen, "Data Science and Simulation in Transportation Research", 2013, IGI Global.</p> <p>[P13] Knapen, Luk; Keren, Daniel; Yasar, Ansar-UI-Haque; Cho, Sungjin; Bellemans, Tom; Janssens, Davy; Wets, Geert, "Analysis of the co-routing problem in agent-based carpooling simulation", Procedia Computer Science,10,,821-826,2012, Elsevier.</p> <p>[P14] Keren, Daniel; Yasar, Ansar-UI-Haque; Knapen, Luk; Cho, Sungjin; Bellemans, Tom; Janssens, Davy; Wets, Geert; Schuster, Assaf; Sharfman, Izchak, "Exploiting Graph-theoretic Tools for Matching and Partitioning of Agent Population in an Agent-based Model for Traffic and Transportation Applications", Procedia Computer Science,10,833-839,2012, Elsevier.</p> <p>[P15] Cho, Sungjin; Yasar, Ansar-UI-Haque; Knapen, Luk; Bellemans, Tom; Janssens, Davy; Wets, Geert,"A conceptual design of an agent-based interaction model for the carpooling application", Procedia Computer Science,10,,801-807,2012,Elsevier.</p> <p>[P16] Paridel, Koosha; Mantadelis, Theofrastos; Preuveneers, Davy; Janssens, Gerda; Vanrompay,</p>

	<p>Yves; Berbers, Yolande, "Analyzing the efficiency of context-based grouping on collaboration in VANETs with large-scale simulation", Journal of Ambient Intelligence and Humanized Computing, Jan-16, 2012, Springer-Verlag.</p> <p>[P17] 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", Procedia Computer Science, 10, 1221-1227, 2012, Elsevier.</p> <p>[P18] Yasar, A., Paridel, K., Preuveneers, D., Berbers, Y., "When Efficiency Matters: Towards Quality of Context-aware Peers for Adaptive Communication in VANETs", in Proceedings of IEEE IV 2011.</p> <p>[P19] Paridel, K., Yasar, A., Vanrompay, Y., Preuveneers, D., Berbers, Y., "Teamwork on the Road: Efficient Collaboration in VANETs with Context-based Grouping", Procedia Computer Science, 48-57, 2011, Elsevier.</p> <p>[P20] Yasar, A., Muhammad, N., Preuveneers, D., Berbers, Y., "End-to-End Communication Modelling for Large Scale Vehicular Networks using AADL", in Proceedings of 17th International Conference on Software and Internet Technologies 2011.</p> <p>[P21] Yasar, A., Preuveneers, D., Berbers, Y., "Evaluation framework for adaptive context-aware routing in large scale mobile peer-to-peer systems", Peer-to-Peer Networking and Applications, Springer vol. 3, 2010.</p> <p>[P22] Yasar, A., Preuveneers, D., Berbers, Y., "Modelling and simulating large scale vehicular networks for smart context-aware telematic applications" in Modelling, Simulation and Optimization, Austria: IN-TECH Publishers, 2010, ISBN 978-953-7619-36-7, pp. 509-530.</p> <p>[P23] Yasar, A., Vanrompay, Y., Preuveneers, D., Berbers, Y., "Optimizing information dissemination in large scale mobile peer-to-peer networks using context-based grouping", in 13th International IEEE Conference on Intelligent Transportation Systems (19-22 Sep 2010, Madeira Island, Portugal), 2010.</p> <p>[P24] 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 Proceedings of the 2010 ACM Symposium on Applied Computing (22-26 March 2010, Sierre), 2010.</p> <p>[P25] 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 LNCS (10-12 Nov 2010, Malaga, Spain), de Ruyter, B. Eds., 2010, pp. 107-116.</p> <p>[P26] 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>[P27] Yasar, A., Preuveneers, D., Berbers, Y., Bhatti, G., "Best practices for software security: An overview", in 12th IEEE International Multitopic Conference (IEEE INMIC 2008) (23-24 Dec 2008, Karachi), 2008.</p> <p>[P28] Yasar, A., Berbers, Y., Preuveneers, D., "A computational analysis of driving variations on distributed multiuser driving simulators", in IASTED International Conference on Modelling and Simulation (26-28 May 2008, Quebec, Canada), 2008.</p> <p>[P29] Yasar, A., Preuveneers, D., Berbers, Y., "Adaptive context mediation in dynamic and large scale vehicular networks using relevance backpropagation", in Sensor, Ad Hoc and Mesh Network workshop - Mobility Conference 2008 (10-12 September 2008, Taiwan), 2008.</p> <p>[P30] Preuveneers, D., Yasar, A., Berbers, Y., "Architectural styles for opportunistic mobile communication: Requirements and design patterns", in Mobility conference 2008 (10-12 September 2008, Taiwan), 2008.</p> <p>[P31] Yasar, A., "Enhancing experience prototyping by the help of mixed-fidelity prototypes", in 4th international conference on mobile technology, applications, and systems (10-12 September 2007, Singapore), 2007.</p> <p>[P32] 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>[P33] Yasar, A., Preuveneers, D., Berbers, Y., "A scalable context-aware solution for inter-vehicle communication", 3rd ERCIM Workshop on eMobility (27-28 May 2009, Enschede), 2009.</p>
<p>Research Tasks</p>	<ul style="list-style-type: none"> • Technical Expert COST Action (EU). • Technical Expert EUREKA Eurostar Framework (EU). • Program Chair ANT-2014 conference (Belgium).

	<ul style="list-style-type: none"> • Reviewer for the International HCI conference 2008. • Member programme committee at International MobileHCI conference 2009. • Reviewer for the International ICMI-MLMI conference 2009. • Chair/Member programme committee at ABMTRANS – 2012, 2013, 2014. • Program vice-chair / track chair ANT'13 conference (Transportation track). • Outstanding service award for being the workshop chair for ABMTRANS'12 at the 3rd International conference on ambient systems, networks and technologies (ANT'12), Niagara Falls, Canada (27-29 Aug, 2012).
<p>Research Work</p>	<p><u>Ph.D. Research</u> Context-based Communication in Large Scale Vehicular Networks. 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. 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> A Computational Analysis of Driving Variations in a Distributed Simulated Driving Environment. 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. 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> Location Determination of Mobile Nodes in a Wireless Network using Microsoft .NET Platform. 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>
<p>Projects</p>	<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++.
<p>Language Skills</p>	<ul style="list-style-type: none"> ▪ English Fluency in speaking, reading and writing. ▪ Swedish Completed level 1 from LiU Sweden. ▪ Dutch Completed level 1 from GroupT Belgium. ▪ Urdu Fluency in speaking, reading and writing.