Dr. Siyuan Ji

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Contact Imformation	ADDRESS 22 Barnsdale Close, Loughborough, UK LE11 5AN	MOBILE +44 - (0)7514282297	E-MAIL s.ji@lboro.ac.uk
Reseach Interest	SYSTEMS AND SOFTWARE ENGINEERING • System of systems architecture and engineerin • Systems design philosophy, methods and algor • Reliability modeling and engineering for safety • Product line automation and optimisation	g • Vo ithms • In critical systems • Vo	EHICLE ENGINEERING Ehicle dynamics control Iternal combustion engine calibration Ehicle emissions control Ehicle electronics architecture
EDUCATION	ACADEMIC • PH.D. (February 2015) Location: The University of Nottingham, Nottingham, U Supervisor: Prof. Igor. Lesanovsky Co-Supervisor: Prof. Juan. P. Garrahan Scholarship: Fully funded by the school	JK Location: The Unive	Science in Physics) (July 2010) rsity of Nottingham, Nottingham, UK tional Student Scholarship ionours
Affiliation	 ASSOCIATE FELLOW OF THE HIGHER EDUCATION ACADEMY MEMBER, INSTITUTION OF ENGINEERING AND TECHNOLOGY (IET) MEMBER, INSTITUTION OF ELECTRICAL AND ELECTRONICS ENGINERS (IEEE) MEMBER, OBJECT MANAGEMENT GROUP (OMG) MEMBER, INTERNATIONAL COUNCIL OF SYSTEMS ENGINEERING (INCOSE) 		
Teaching Experience	 TEACHING ASSISTANT (January 2015 - Present) Location: Wolfson School of Mechanical, Electrical & Manufacturing Engineering (formerly School of EESE), Loughborough University, U.K. MSc level Modules: Systems Architecture; Systems Design; Systems Verification and Validation Main Role: Contribute to curriculum design, lecture design and delivering, case study design and supervision, and marking DEMONSTRATOR (September 2010 - July 2013) Location: The University of Nottingham, Nottingham, UK Main Role: Demonstrating in first year undergraduates' laboratory and marking laboratory notes and reports 		
PhD Supervision	• Rosmira Roslan (2015 - Present) Role: Co-supervisor Research Topic: Formal methods for analysis and discovery of behavioural failures states		
Research Experience	 RESEARCH ASSOCIATE (January 2015 - Present) Location: Wolfson School of Mechanical, Electrical & Manufacturing Engineering (formerly School of EESE), Loughborough University, U.K. Main Roles: lead researcher on several projects on topics of vehicle engineering, systems engineering and software engineering. Currently collaborating with JLR to develop the next generation electronic vehicle architecture that will revolutionise the conventional CAN/LIN network. RESEARCH ASSISTANT (October 2014 - December 2014) Location: School of Physics and Astronomy, The University of Nottingham, Nottingham, UK Direction: Kinetic Monte-Carlo Methods 		
Patent	C. Dickerson, S. Ji , and D. Battersby with Jaguar Land Rover "Calibration system and method" U.K. patent publication number GB2555617, 9th May 2018 This joint patent details a novel algorithmic approach to system calibration. The primary application of the patent is on diesel engines calibration. The method is generically applicable to other calibration systems on a vehicle, as well as systems beyond the automotive domain.		
Software Standard	S. Ji (Lead technical author), M. Li, Y. Bernard, et. al. "UPR: UML Profile for ROSETTA" Adopted by the Object Management Group on 22nd June 2018 This is a two-year effort international software specification jointly among Loughborough University, Airbus, National Institute of Standards and Technology, ZTI Systems, and IBM. The specification facilitates the modelling and analysis of constraint-driven design problems to achieve architecture optimisation and cross-domain design trade-off and integration.		
Reseach Proposal	• Constraint Driven Design Engineering Environment, CD2E2, £54,234.00 Funding Body: EPSRC Impact Acceleration Account, Loughborough University Enterprise Group		
Conference Organized	• Quantum Correlations Students workshop (QU Location: University of Nottingham, Nottingham, U.K.	ACS) (1 July - 3 July 2012)	