

## TATIANA KALGANOVA

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Gender: Female

Date of birth: 27/03/1972

Nationality: French

### WORK EXPERIENCE

[10/2020 – Current] Director of Research Centre for AI: Social and Digital Innovation,  
Brunel University London  
London, UK

[11/2016 – Current] Member of the Advisory Academic Council of Institute of New Engineering and  
Materials  
Ural Federal University  
Yekaterinburg, Russia

[11/2016 – Current] Full Member of EPSRC Peer Review Associate College,  
EPSRC Peer Review Associate College  
UK

[08/2000 – Current] Senior Lecturer in Intelligent Systems Electronic and Computer Engineering  
School of Engineering and Design, Brunel University,  
London, UK

[2003 – 2011] Business Fellow,  
London Technology Network,  
London, UK

[1994 – 1997] Research Assistant  
Belarusian State University of Informatics and Radio-electronics,  
Minsk, Belarus

### EDUCATION

[2008] PG Cert in Learning and Teaching in Higher Education,  
Brunel University London, [www.bucks.ac.uk](http://www.bucks.ac.uk)  
London, UK

[1997 – 2000] PhD in Evolvable Hardware  
Napier University, [www.napier.ac.uk](http://www.napier.ac.uk)  
Edinburgh, UK

[1997] Research-engineer Certificate- The program includes a set of modules on Pedagogy, Specialization,  
Languages and Research methodology  
Belarusian State University of Informatics and Radio-electronics, [www.bsuir.by](http://www.bsuir.by)

Minsk, Belarus

[1989 – 1994] Masters in Control of Complex Systems  
Belarusian State University of Informatics and Radio-electronics, [www.bsuir.by](http://www.bsuir.by)  
Minsk, Belarus

**PUBLICATIONS /last 5 years/**

[2022] “The Current State of the Art in Deep Learning for Image Classification: A Review”, co-author, pp1-19, Lecture Notes in Networks and Systems, London, UK

[2021] “Dynamic impact for ant colony optimization algorithm”, co-author, Swarm and Evolutionary Computation, 100993

[2021] “No routing needed between capsules” Neurocomputing, co-author, Volume 463, Pages 545-553, ISSN 0925-2312, <https://doi.org/10.1016/j.neucom.2021.08.064>

[2021] “ Homogeneous Vector Capsules Enable Adaptive Gradient Descent in Convolutional Neural Networks” in IEEE Access 9, co-author, 48519-48530

[2021] A control structure for ambidextrous robot arm based on Multiple Adaptive Neuro-Fuzzy Inference System in John Wiley & Sons Ltd on behalf of The Institution of Engineering and Technology

[2020] “Accelerating supply chains with Ant Colony Optimization across a range of hardware solutions in Computers & industrial engineering 147, co-author, 106610