SAEED SALEHI

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ssnio ssn_io
Fischerinsel 14, 10179 - Berlin, Germany

EDUCATION

M.S. in Computational Neuroscience
Bernstein Center for Computational Neuroscience
Oct 2018 – Ongoing Berlin, Germany
Running GPA: 1.1 (equivalent of A / very good)

M.S. in Electrical Power Engineering
Brandenburg University of Technology (B-TU)
Oct 2012 – Sept 2014 Cottbus, Germany
Final GPA: 1.1 (equivalent of A / very good)

B.S. in Electrical Engineering
Power and Water University of Technology (PWUT)
Sept 2005 – Oct 2010 Tehran, Iran

EXPERIENCE

Dynamic Stability Expert & Automator
50Hertz Transmission GmbH
Oct 2014 – Sept 2020 Berlin, Germany

- Modeling and development of dynamic networks for stability and control studies
- Development of Python tool-chain for automation and Optimization of dynamic Stability Analysis (OSA)
- Member of European Connection Network Code (CNC) working group and co-author of multiple regulatory guidelines and a technical paper

TA, Content reviewer & Waxer
NMA Computational Neuroscience summer school
June – July 2020 NeuroMAtch Academy!

Research Assistant
Ministry of Energy
2011 – 2012 Tehran, Iran
Developing the smart grid road map for energy market

Teaching Assistant and Instructor
PWUT - B-TU
2008 – 2014 Tehran, Iran
TA for *Linear Control Systems, Electrical Circuits, Electromagnetic and Power Electronics* @ PWUT
Instructor of *CYME Dist and PSCAD* @ PWUT
Instructor of *DIgSILENT PowerFactory* @ B-TU

A more elaborate but less "stylish" CV: ssnio.github.io/about/

RESEARCH INTERESTS

- What cost functions drive our attention, questions and exploration; and How is it optimized?
- Machine learning for and from Neuroscience
- Causal inference and robust learning

LAB ROTATIONS

Prof. Richard Kempter's Lab
Modeling ripple oscillations in networks of delayed inhibitory pulse-coupled oscillators

Prof. Henning Sprekeler's Lab
Modeling motor cortex by training and analyzing recurrent neural networks

Dr. Wolf-Julian Neumann's Lab
EEG and ECoG signal processing for closed loop deep brain stimulation with focus on waveform

PUBLICATIONS

- H. Urdal et al., *"High Penetration of Power Electronic Interfaced Power Sources and the Potential Contribution of Grid Forming Converters"* ENTSO-E joint technical report, 2019
- J. Weidner, R. Bauer, S. Salehi, *"Control strategies of phase-shifting transformers in long term network development"*, International ETG Congress – Die Energiewende, Bonn, 2015
- M. S. Ghazizadeh, S. Salehi, and A. Shahmohammadi, *"Design of Power System Stabilizer (PSS) based on Anchoring Zeros"*, accepted in Eighth IEEE International Conference on Control & Automation, 2010

STRENGTHS

Dynamic network modeling, simulation and analysis
Bayesian inference | Control theory | Programming
Eager to learn & teach

PROGRAMMING LANGUAGES

Python (+ few scientific libraries)
C++, Julia, VBA and PyQt
DIgSILENT Sim. and Prog. Languages

NATURAL LANGUAGES

Persian
English
German