SAEED SALEHI

🌐 ssnio.github.io
@ saeeds@bccn-berlin.de
 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 are they optimised?
- 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