

Workshop on Computational Neuroscience
Sofia, Bulgaria
July 9 – 10, 2026
Programme

July 09, 2026 (Thursday)		July 10, 2026 (Friday)	
09:50	OPENING		
10:00–10:50	Sonja Grün <i>Detecting Well-Timed Spike Signatures of Cell Assemblies</i>	10:00–10:50	Alon Katz & Mina Teicher <i>Recognizing Different Patterns In Brain Activity MEG Recording While Thinking Of Different Numbers</i>
Coffee Break		Coffee Break	
11:10–12:00	Markus Diesmann <i>Digital twins of large-scale cortical networks as research platforms for future AI</i>	11:10–12:00	Petia Koprinkova & Georgi Rusev <i>Neuromorphic computing for BMI / Spectral Feature Extraction from ECoG Signals: Impact of Filtering and Window Length</i>
Lunch break		Lunch break	
14:00–14:50	Alexander Dimitrov <i>Statistics of spiking neural networks based on counting processes</i>	14:00–14:50	Anno Kurth <i>Activity-gated plateau potentials reinforce place-fields via behavioral time-scale plasticity</i>
14:50–15:40	Nikolay Gabrovsky <i>Emerging technologies and innovations in neurosurgery</i>	14:50–15:40	Milena Mihaylova <i>Visual Information Processing in Autism Spectrum Disorder: A Multi- and Interdisciplinary Research Framework</i>
Coffee Break		Coffee Break	
16:00– 16:50	Mihai A. Petrovici <i>Spiking at the speed of light</i>	16:00– 16:30	Ahmad Sleman <i>Analysis of MEG recordings for understanding the neural mechanism underlying conceptual numerical and color perception</i>
16:50–17:40	Federico Benitez <i>Error backpropagation in the brain, through space and time</i>		