

The Schedule of the ÚNKP _ PhD Presentations – 20th June 2019

Time	Name	Title	Supervisors
8 ⁰⁰ -8 ²⁰	Gábor Dániel BALOGH	Automatic parallelisation of scientific applications using high level abstractions with source-to-source translation	Dr. István Zoltán REGULY
8 ²⁰ -8 ⁴⁰	Bence Márk KEÖMLEY-HORVÁTH	Review of proteomics databases for protein complex simulations	Dr. Attila CSIKÁSZ-NAGY Dr. István Zoltán REGULY
8 ⁴⁰ -9 ⁰⁰	Suchana CHAKRAVARTY	Reducing the Effects of Biological Noise by Coupled Feed Forward Loops	Dr. Attila CSIKÁSZ-NAGY
9 ⁰⁰ -9 ²⁰	Tünde Éva GAIZER	Quantifying growth of <i>S. cerevisiae</i> strains in co-cultures	Dr. Attila CSIKÁSZ-NAGY
9 ²⁰ -9 ⁴⁰	Marcell MISKI	Analyses of protein-protein interactions related to nNOS by stochastic simulations	Dr. Attila CSIKÁSZ-NAGY
9 ⁴⁰ -10 ⁰⁰	Mihály SZÜCS	Particle separation in curved microchannels	Dr. Kristóf IVÁN
10 ⁰⁰ -10 ¹⁰	Break (10 min)		
10 ¹⁰ -10 ³⁰	Zsolt MEZRICZKY	In vivo and in vitro representation of Sharp wave-ripple associated dendritic signals	Dr. Balázs RÓZSA J.
10 ³⁰ -10 ⁵⁰	Zsófia VARGA-MEDVECZKY	3D two-photon imaging of putative visual cortical functional modules	Dr. Balázs RÓZSA J.
10 ⁵⁰ -11 ¹⁰	Máté MOHÁCSI	Evaluating the performance of different methods for fitting the parameters of neuronal models	Dr. Tamás FREUND Dr. Szabolcs KÁLI
11 ¹⁰ -11 ³⁰	Luca TAR	Analysis of ion channel models and possible implementations of long term plasticity in a detailed CA1 pyramidal cell mode	Dr. Tamás FREUND Dr. Szabolcs KÁLI
11 ³⁰ -11 ⁵⁰	Veronika CSILLAG	Secretin modulates excitatory GABAergic neurotransmission to GnRH neurons via retrograde NO signaling pathway in mice	Dr. Imre FARKAS Dr. Zsolt LIPOSITS
11 ⁵⁰ -12 ¹⁰	Luca Anna BORS	Overcoming the blood-brain barrier by different intranasal formulations of quinidine, a P-gp model substrate	Dr. Franciska ERDŐ
12 ¹⁰ -13 ⁰⁰	Lunch		
13 ⁰⁰ -13 ²⁰	Péter MAROSÁN	Review of segmentation and detection methods on ultrasound images	Dr. Miklós GYÖNGY
13 ²⁰ -13 ⁴⁰	Krisztián FÜZESI	A review of micromachined ultrasound transducers	Dr. Miklós GYÖNGY
13 ⁴⁰ -14 ⁰⁰	Janka HATVANI	A Review of Super-Resolution Techniques in Computed Tomography Post-Processing	Dr. Miklós GYÖNGY
14 ⁰⁰ -14 ²⁰	Anna HAJDARA	Tyramide signal amplification technique in dermal fibroblasts	Dr. Balázs MAYER Dr. Miklós GYÖNGY
14 ²⁰ -14 ⁴⁰	Csaba Márton KÖLLŐD	Developing of Brain-Computer Interfaces by using Deep Learning technologies	Dr. István ULBERT
14 ⁴⁰ -15 ⁰⁰	Ward FADEL	Investigation of Classification methods for EEG-based BCI using Neural Networks	Dr. István ULBERT Dr. Lucia WITTNER
15 ⁰⁰ -15 ²⁰	Moutz WAHDOW	Biostability study of Liquid Crystal Polymer coated implants	Dr. István ULBERT
15 ²⁰ -15 ³⁰	Break (10 min)		
15 ³⁰ -15 ⁵⁰	Eszter NAGY-KANTA	Functional and structural investigation of the post-synaptic scaffold protein GKAP	Dr. Zoltán GÁSPÁRI
15 ⁵⁰ -16 ¹⁰	Bianka Vivien FARKAS	Describing the ion passage through the CFTR ion channel	Dr. Zoltán GÁSPÁRI Dr. Tamás HEGEDŰS
16 ¹⁰ -16 ³⁰	Zsófia Etelka KÁLMÁN	How disease causing mutations perturb the structure of PSD proteins	Dr. Zoltán GÁSPÁRI
16 ³⁰ -16 ⁵⁰	Zita HARMAT	Building the three-dimensional structural model of the postsynaptic protein GKAP	Dr. Zoltán GÁSPÁRI

The Schedule of the ÚNKP _ PhD Presentations – 21st June 2019

<i>Time</i>	<i>Name</i>	<i>Title</i>	<i>Supervisors</i>
8 ⁰⁰ -8 ²⁰	Péter POLCZ	Induced L2 gain estimation of a continuous fermentation process using Finsler's lemma	Dr. Gábor SZEDERKÉNYI
8 ²⁰ -8 ⁴⁰	Gergely SZLOBODNYIK	Reachability Analysis of Subconservative Reaction Networks	Dr. Gábor SZEDERKÉNYI
8 ⁴⁰ -9 ⁰⁰	Nawar AL-HEMEARY	PID-based temperature control of a small satellite	Dr. Gábor SZEDERKÉNYI Dr. György CSEREY
9 ⁰⁰ -9 ²⁰	Dániel HAJTÓ	Multistate-switching based memristor modeling in a Python based SPICE-like circuit simulator	Dr. György CSEREY
9 ²⁰ -9 ⁴⁰	Márton Zsolt KISS	A new technique for a better autofocus	Dr. Ákos ZARÁNDY
9 ⁴⁰ -10 ⁰⁰	Lóránt KOVÁCS	Challenges in track to track sensor fusion using neural networks	Dr. Ákos ZARÁNDY Dr. Viktor Roland TIHANYI
10 ⁰⁰ -10 ²⁰	Break (20 min)		
10 ²⁰ -10 ⁴⁰	Koppány PÁZMÁN	Machine learning based vision systems for autonomous vehicles	Dr. Ákos ZARÁNDY
10 ⁴⁰ -11 ⁰⁰	Ádám NAGY	Monitoring of physiological signals of newborn babies	Dr. Ákos ZARÁNDY
11 ⁰⁰ -11 ²⁰	Levente Márk SÁNTHA	Nearest neighbours algorithms for high bandwidth PET image reconstruction on FPGA	Dr. Ákos ZARÁNDY Dr. Zoltán NAGY
11 ²⁰ -11 ⁴⁰	Sam KHOZAMA	Accelerating charged single α -helix on FPGA	Dr. Zoltán NAGY Dr. Zoltán GÁSPÁRI
11 ⁴⁰ -12 ⁰⁰	Attila FEJÉR*	Image processing algorithms implementation on FPGA	Dr. Péter SZOLGAY
12 ⁰⁰ -13 ⁰⁰	Lunch		
13 ⁰⁰ -13 ²⁰	Áron CSERKASZKY	Light Field 3D Videoconferencing	Dr. Péter SZOLGAY
13 ²⁰ -13 ⁴⁰	András Attila SULYOK	Increasing Agility in Learning through Better Novelty Representation	Dr. Péter SZOLGAY Dr. Kristóf KARACS
13 ⁴⁰ -14 ⁰⁰	András GELENCSÉR	Prominent color detection in images via hierarchical color aggregation	Dr. Péter SZOLGAY Dr. Kristóf KARACS
14 ⁰⁰ -14 ²⁰	Ágnes SZABÓ	The effects on cell attachment of surface nanostructuring of SU-8 thin films	Dr. Zoltán FEKETE
14 ²⁰ -14 ⁴⁰	Yahya IBRAHIM	Brick Segmentation in Masonry Walls by a CNN-based Watershed Algorithm	Dr. Csaba BENEDEK
14 ⁴⁰ -15 ⁰⁰	Balázs NAGY	Online Targetless Camera-LIDAR calibration	Dr. Csaba BENEDEK
15 ⁰⁰ -15 ¹⁰	Break (10 min)		
15 ¹⁰ -15 ³⁰	András FÜLÖP	Implementation of Neural Networks in Fourier Domain	Dr. András HORVÁTH Dr. György CSABA
15 ³⁰ -15 ⁵⁰	Jalal ALAFANDI	Incorporating topological information in loss function for image segmentation	Dr. András HORVÁTH
15 ⁵⁰ -16 ¹⁰	Ákos KOVÁCS	Improving image quality of bone scintigraphy using artificial intelligence	Dr. Tamás BÜKKI Dr. András HORVÁTH
16 ¹⁰ -16 ³⁰	Dóra Eszter BABICZ	Solving k-SAT problems with Continuous Time Neural Networks	Dr. András HORVÁTH Dr. Csaba REKECZKY
16 ³⁰ -16 ⁵⁰	Franciska Sára RAJKI	Adversarial Attack Resilience of Neural Networks	Dr. András HORVÁTH
16 ⁵⁰ -17 ⁰⁰	Discussion		
17 ⁰⁰	Reception		

* presented via Skype from abroad