# Joint Workshop of BBDC, BZML and RIKEN AIP

**Location:** Hörsaal (Ground Floor), Fraunhofer Institute HHI  
Einsteinufer 37, 10587 Berlin

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>9:00 – 9:20</td>
<td>Coffee</td>
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<tr>
<td>9:20 – 9:30</td>
<td>Opening Remarks (Klaus-Robert Müller, Masashi Sugiyama)</td>
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| 9:30 – 11:00  | Chair: Gitta Kutyniok  
Klaus-Robert Müller, “Introduction of BZML”  
Masashi Sugiyama, “Introduction of RIKEN-AIP/Weakly supervised learning”  
Hisashi Kashima, “Human computation”  |
| 11:30 – 12:30| Chair: Hisashi Kashima  
Gitta Kutyniok, “Deep Learning and Modeling: Taking the Best out of Both Worlds”  
Yasuo Tabei, “Scalable Machine Learning on Compressed Data”  |
| 12:30 - 15:00| Lunch + Poster/demo session 1  
(Lunch will be served at the location)                                                        |
| 15:00 – 16:00| Yuji Matsumoto, “Scientific Paper Analysis”  
Leonhard Henning, Arne Binder, Sebastian Möller, “NLP@DFKI: Deep learning for information extraction from text”  |
| 16:30 – 17:30| Chair: Takayuki Okatani  
Konrad Rieck, “Adversarial learning in a nutshell”  
Hiromi Arai, “Privacy and fairness in machine learning”  |
<p>| 19:00 –       | Dinner (Invitation only)                                                                 |</p>
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<tr>
<th>Time</th>
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<tr>
<td>9:00 – 9:30</td>
<td>Coffee</td>
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<td>9:30 – 11:00</td>
<td>Volker Markl, “Introduction of BBDC”</td>
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<td>Takayuki Okatani, “Tackling the major issue with deep learning for computer vision applications”</td>
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<td>Wojciech Samek, “Interpreting and Explaining Deep Models”</td>
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<td>11:30 – 12:30</td>
<td>Coffee</td>
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<td>Takanori Maehara, “How to resolve uncertainties for submodular maximization?”</td>
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<td>Ziawasch Abedjan, “A holistic approach for effective error detection”</td>
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<td>12:30 – 15:00</td>
<td>Lunch break + Poster/demo session 2</td>
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<td>(Lunch will be served at the location)</td>
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<td>15:00 – 16:00</td>
<td>Manfred Opper, Christian Donner, “Variational Bayesian Inference for Point Processes - a latent variable approach”</td>
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<td>Emtiyaz Khan, “Learning-algorithms from Bayesian principles”</td>
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<td>16:30 – 17:30</td>
<td>Coffee</td>
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<td>Isao Ishikawa, “Metrics for dynamical systems via Perron-Frobenius operators on vector-valued RKHSs”</td>
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<td>Roland Schwarz, “Machine learning in molecular biology: variant effect prediction and prioritization”</td>
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<td>17:30 – 17:40</td>
<td>Closing Remarks</td>
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Poster/Demo Presentations
(Day 1: Monday 9th, September)

Location: Hörsaal (Ground Floor), Fraunhofer Institute HHI Einsteinufer 37, 10587 Berlin

1 Posters


MT-2 Masahiro Ikeda, "Finding Cheeger Cuts via Heat Equation on Hypergraph"

MT-3 Koichi Tojo, Taro Yoshino, "A method to construct exponential families by representation theory"

MT-4 Ning Zheng, Chao Li, Yuyuan Yu, Qibin Zhao, "Fast nonnegative tensor ring decomposition with graph structured data"

MT-5 Takaaki Nishimoto, Yasuo Tabei, "LZRR: LZ77 Parsing with Right Reference"

MT-6 Israr Ul Haq, Yoshinobu Kawahara, "Dynamic Information Extraction in Videos for Foreground Modeling"

MT-7 Dharmesh Tailor, Mehdi Abbana Bennani, Michael Przystupa, Voot Tangkaratt, Mohammad Emtiyaz Khan, "Probabilistic Model-Based Reinforcement Learning with Natural-Gradient Variational Inference"

MT-8 Emtiyaz Khan, Alexander Immer, Ehsan Abedi, Maciej Korzepa, "Approximate Inference turns Deep Networks into Gaussian Processes"

MT-9 Hoang Nguyen, Takanori Maehara, "GNN: A Graph Signal Processing Perspective"

MT-10 Heon Song, Daiki Suehiro, Seichi Uchida, "Adaptive Aggregation of Arbitrary Online Trackers with a Regret Bound"

MT-11 Takeshi Teshima, Miao Xu, Issei Sato, Masashi Sugiyama, "Clipped Matrix Completion: A Remedy for Ceiling Effects"

MT-12 Han Bao, Masashi Sugiyama, "Calibrated Surrogate Maximization of Linear-fractional Utility in Binary Classification"

M-13 Vignesh Srinivasan, Arturo Marban, Klaus-Robert Müller, Wojciech Samek, Shinichi Nakajima, "Defense against Adversarial Attacks by Langevin Dynamics"

M-14 Mohammad Mahdavi, Ziawasch Abedjan, Raul Castro Fernandez, Samuel Madden, Mourad Ouzzani, Michael Stonebraker, and Nan Tang, "Raha: A Configuration-Free Error Detection System"

M-15 Christoph Alt, Marc Hübner, Leonhard Hennig, "Improving Relation Extraction by Pre-trained Language Representations"

M-16 Niklas Gebauer, Michael Gastegger, Kristof Schütt, "Symmetry-adapted generation of 3d point sets for the targeted discovery of molecules"
2 Demos

Demo-M-1  Serafeim Papadias, "Distributed Query Processing under Dataflow Constraints"

Demo-M-2  DIMA11, "ReSense: Transparent Record and Replay of Sensor Data in the Internet of Things"
Poster/Demo Presentations  
(Day 2: Tuesday 10th, September)

Location: Hörsaal (Ground Floor), Fraunhofer Institute HHI Einsteinufer 37, 10587 Berlin

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MT-12 Han Bao, Masashi Sugiyama, "Calibrated Surrogate Maximization of Linear-fractional Utility in Binary Classification"


T-14 Öykü Özlem Çakal, Mohammad Mahdavi, and Ziawasch Abedjan, "CLRL: Feature Engineering for Cross Language Record Linkage"

T-15 Christoph Alt, Marc Hübner, Leonard Hennig, "Fine-tuning Pre-Trained Transformer Language Models to Distantly Supervised Relation Extraction"

T-16 Hannah Marienwald, Wiktor Pronobis, Klaus-Robert Müller, Shinichi Nakajima, "Tight Bound of Incremental Cover Trees for Dynamic Diversification"
T-17 Mahsa Ghanbari, Uwe Ohler, "Deep neural networks for interpreting RNA binding protein target preferences"

T-18 Rieke Kempfer, Gesa Loof, Alexander Kukalev, Ana Pombo, Roland Schwarz, "GAMIB-HEAR: whole-genome haplotype reconstruction from Genome Architecture Mapping data"

T-19 Franz Besold, "Manifold Clustering with Adaptive Weights"

T-20 Ariane Ziehn, Marcela Charfuelan, Holmer Hemsen, Volker Markl, "Time Series Similarity Search for Streaming Data in Distributed Systems"

T-21 Jonas Traub, "TBD"

T-22 Clemens Lutz, "TBD"


T-24 DIMA10, "TBD"

T-25 Habib Mostafaei, Georgios Smaragdakis, "SDN-enabled Job Scheduler for Data Analytics"

T-26 Hector Andrade Loarca, Gitta Kutyniok, Ozan Öktem and Philipp Petersen, "Extraction of Digital Wavefront Sets using Applied Harmonic Analysis and Deep Neural Networks"

T-27 Martin Genzel, Gitta Kutyniok, Maximilian März, "A New Perspective on L1-Analysis Recovery?"

T-28 Mones Raslan, "Solving Parametric Partial Differential Equations with Deep Neural Networks"

T-29 Jeyhun Karimov, Tilmann Rabl, and Volker Markl, "AStream: Ad-hoc Shared Stream Processing"

2 Demos

Demo-T-1 Ankit Chaudhary, "NebulaStream: operator placement in action"

Demo-T-2 Haralampos Gavriliidis, "NebulaStream for Public Transport"