

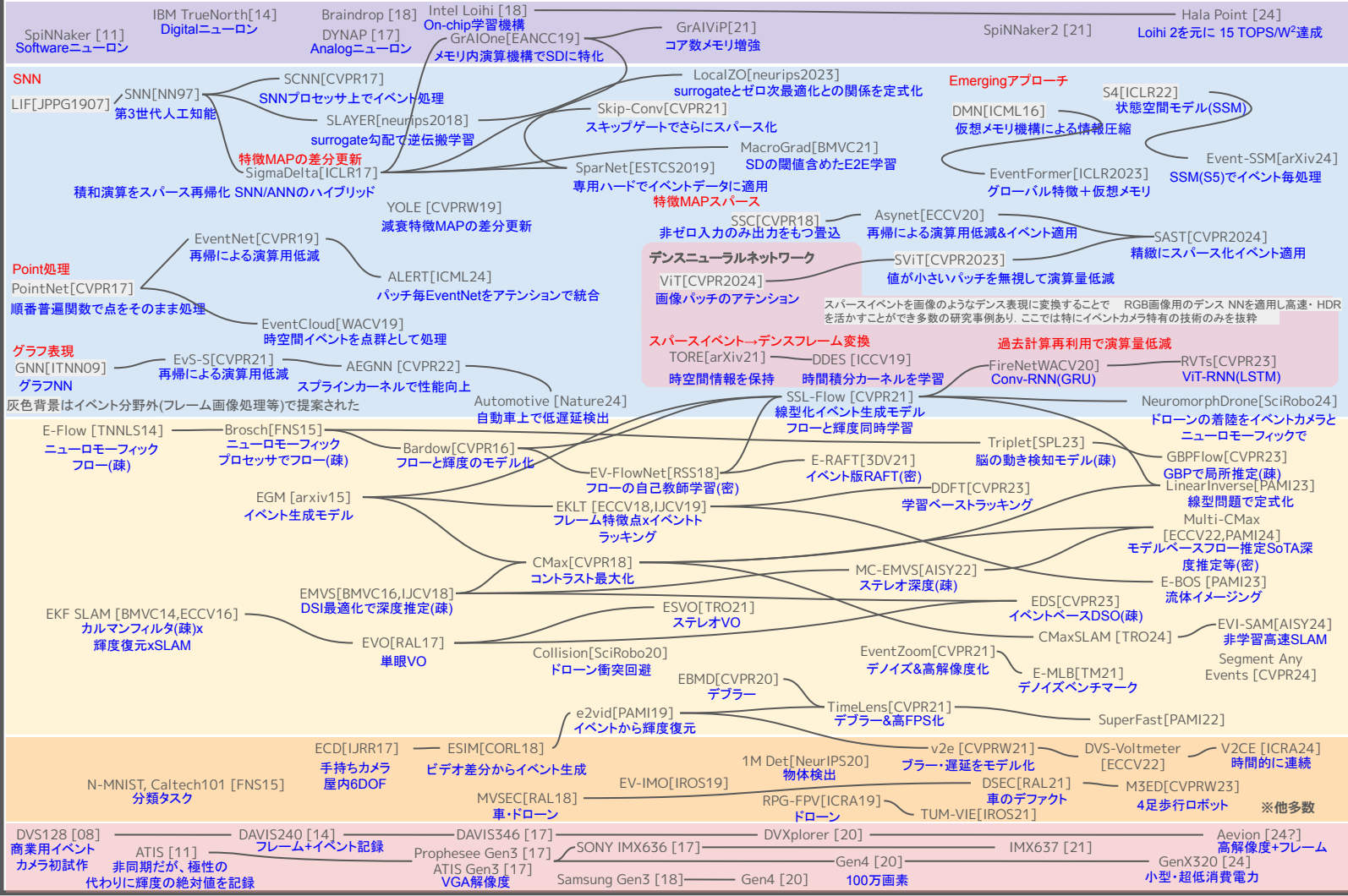
# ニューロモーフィックプロセッサ

# スパースニューラルネット

# イベントビジョン & アプリケーション

# シミュレータ & データセット

# イベントカメラハードウェア



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## 掲載文献リスト 1/2

- ニューロモーフィックプロセッサ
  - [SpinNaker](#), [TrueNorth](#), [DYNAP](#), [BrainDrop](#), [Loihi](#), [Hala Point](#), [GrAI](#)
- スパースニューラルネット
  - SSC 3D Semantic Segmentation with Submanifold Sparse Convolutional Networks, [CVPR2018](#)
  - PointNet PointNet: Deep Learning on Point Sets for 3D Classification and Segmentation, [CVPR2017](#)
  - SpaceCloud Space-time event clouds for gesture recognition:: From rgb cameras to event cameras, [WACV2019](#)
  - EventNet EventNet: Asynchronous Recursive Event Processing, [CVPR2019](#)
  - YOLE Asynchronous Convolutional Networks for Object Detection in Neuromorphic Cameras, [CVPRW2019](#)
  - ALERT ALERT-Transformer: Bridging Asynchronous and Synchronous Machine Learning for Real-Time Event-based Spatio-Temporal Data, [ICML2024](#)
  - AEGNN Event-based Asynchronous Sparse Convolutional Networks, [ECCV2020](#)
  - EvS-S Graph-based asynchronous event processing for rapid object recognition, [CVPR2021](#)
  - AEGNN AEGNN: Asynchronous Event-based Graph Neural Networks, [CVPR2022](#)
  - EventFomer Associative memory augmented asynchronous spatiotemporal representation learning for event-based perception, [ICLR2023](#)
  - Event-SSM Scalable Event-by-event Processing of Neuromorphic Sensory Signals With Deep State-Space Models, [arXiv2024](#)
  - SigmaDelta Sigma Delta Quantized Networks, [ICLR2017](#)
  - Skip-Conv Skip-Convolutions for Efficient Video Processing, [CVPR2021](#)
  - FireNet Fast Image Reconstruction with an Event Camera, [WACV2020](#)
  - RVTs Recurrent Vision Transformers for Object Detection with Event Cameras, [CVPR2023](#)
  - GNN The Graph Neural Network Model, [ITNN2009](#)
  - DDES Learning an event sequence embedding for dense event-based deep stereo, [ICV2019](#)
  - TORE Time-Ordered Recent Event (TORE) Volumes for Event Cameras, [arXiv2021](#)
  - FireFlowNet Back to Event Basics: Self-Supervised Learning of Image Reconstruction for Event Cameras via Photometric Constancy, [CVPR2021](#)
  - cGAN Event-based High Dynamic Range Image and Very High Frame Rate Video Generation using Conditional Generative Adversarial Networks, [CVPR2019](#)
  - SAST Scene Adaptive Sparse Transformer for Event-based Object Detection, [CVPR2024](#)
  - SViT Sparsevit: Revisiting activation sparsity for efficient high-resolution vision transformer, [CVPR2023](#)
  - ViT An Image is Worth 16x16 Words: Transformers for Image Recognition at Scale, [ICLR2021](#)
  - LIF Recherches quantitatives sur l'excitation électrique des nerfs traitée comme une polarization. JPPG1907
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  - MacroGrad Learning to Sparsify Differences of Synaptic Signal for Efficient Event Processing, [BMVC2021](#)
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  - DML Ask Me Anything: Dynamic Memory Networks for Natural Language Processing, [ICML2016](#)
  - SNN Networks of spiking neurons: the third generation of neural network models, NN97
  - SCNN A Low Power, Fully Event-Based Gesture Recognition System, CVPR2017
  - SNUo Neuromorphic Optical Flow and Real-time Implementation with Event Cameras, CVPRW2023
  - SLAYER SLAYER: Spike Layer Error Reassignment in Time, [neurips2018](#)
  - PLIF Incorporating Learnable Membrane Time Constant to Enhance Learning of Spiking Neural Networks, ICCV2021
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- イベントカメラハードウェア
  - [Event-Based Vision: A Survey](#)のTable 1参照。

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  - E-RAFT E-RAFT: Dense Optical Flow from Event Cameras, 3DV, 2021.
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  - EMVS "EMVS: Event-Based Multi-View Stereo—3D Reconstruction with an Event Camera in Real-Time." (2018) IJCV 126 (12): 1394-1414.
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  - Collision Dynamic Obstacle Avoidance for Quadrotors with Event Cameras, Science Robotics, 2020.
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  - EBMD Learning Event-Based Motion Deblurring, [CVPR2020](#)
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  - V2CE V2CE: Video to Continuous Events Simulator, ICRA, 2024.
- その他、論文一覧のGithub参照: <https://github.com/uzh-rpg/event-based-vision-resources>