

Rémi Emonet's publications

• Year 2017

Residual Conv-Deconv Grid Network for Semantic Segmentation

- C Damien Fourure, **Rémi Emonet**, Éliisa Fromont, Damien Muselet, Natalia Neverova, Alain Trémeau, Christian Wolf
2017 - BMVC (British Machine Vision Conference)

Multi-task, Multi-domain Learning: application to semantic segmentation and pose regression

- J Damien Fourure, **Rémi Emonet**, Éliisa Fromont, Damien Muselet, Natalia Neverova, Alain Trémeau, Christian Wolf
2017 - Neurocomputing

L³-SVMs: Landmarks-based Linear Local Support Vectors Machines

- X Valentina Zantedeschi, **Rémi Emonet**, Marc Sebban
2017 - <http://arxiv.org/abs/1703.00284>
<http://vzantedeschi.com/l3svms.html>

• Year 2016

beta-risk: a New Surrogate Risk for Learning from Weakly Labeled Data

- C Valentina Zantedeschi, **Rémi Emonet**, Marc Sebban
2016 - NIPS (Neural Information Processing Systems)
<http://vzantedeschi.com/betarisk.html>

Unsupervised Interpretable Pattern Discovery in Time Series Using Autoencoders

- C Kevin Bascol, **Rémi Emonet**, Éliisa Fromont, Jean-Marc Odobez
2016 - SSPR (Structural and Syntactic Pattern Recognition)

Semantic Segmentation via Multi-task, Multi-domain Learning

- C Damien Fourure, **Rémi Emonet**, Éliisa Fromont, Damien Muselet, Tremeau Alain, Wolf Christian
2016 - SSPR (Structural and Syntactic Pattern Recognition)

Apprentissage de Combinaisons Convexes de Métriques Locales avec Garanties de Généralisation

- F Valentina Zantedeschi, **Rémi Emonet**, Marc Sebban
2016 - CAp (Conférence sur l'Apprentissage Automatique)

Metric Learning as Convex Combinations of Local Models with Generalization Guarantees

- C Valentina Zantedeschi, **Rémi Emonet**, Marc Sebban
2016 - CVPR (IEEE conf. Computer Vision and Pattern Recognition)

Mixed Pooling Neural Networks for Color Constancy

- C Damien Fourure, **Rémi Emonet**, Éliisa Fromont, Damien Muselet, Tremeau Alain, Wolf Christian
2016 - ICIIP (International Conference on Image Processing)

Segmentation de Scènes Extérieures à Partir d'Ensembles d'Étiquettes à Granularité et Sémantique Variables

- F Damien Fourure, **Rémi Emonet**, Éliisa Fromont, Damien Muselet, Tremeau Alain, Wolf Christian
2016 - RFIA (Reconnaissance des Formes et Intelligence Artificielle)

Lipschitz Continuity of Mahalanobis Distances and Bilinear Forms

- X Valentina Zantedeschi, **Rémi Emonet**, Marc Sebban
2016 - <http://arxiv.org/abs/1604.01376>

• Year 2015

Landmarks-based Kernelized Subspace Alignment for Unsupervised Domain Adaptation

- C Rahaf Aljundi, **Rémi Emonet**, Damien Muselet, Marc Sebban
2015 - CVPR (IEEE conf. Computer Vision and Pattern Recognition)
<publi-2015-cvpr.html>

Predicting a Community's Flu Dynamics with Mobile Phone Data

- C Katayoun Farrahi, **Rémi Emonet**, Manuel Cebrian
2015 - CSCW (ACM Conference on Computer Supported Cooperative Work and Social Computing)

• Year 2014

Smartphones for Improved Disease Spread Modelling

ω Katayoun Farrahi, **Rémi Emonet**

2014 - The Software Sustainability Institute - Blog

Invited blog post in collaboration with Katayoun Farrahi about our work on contact tracing.

<http://www.software.ac.uk/blog/2014-10-03-smartphones-improved-disease-spread-modelling>

Contextually Constrained Deep Networks for Scene Labeling

C Taygun Kekeç, **Rémi Emonet**, Élisabeth Fromont, Alain Trémeau, Christian Wolf

2014 - BMVC (British Machine Vision Conference)

Prise en Compte du Contexte pour Contraindre les Réseaux Profonds: Application à l'Étiquetage de Scènes

F Taygun Kekeç, **Rémi Emonet**, Élisabeth Fromont, Alain Trémeau, Christian Wolf

2014 - CAp (Conférence d'Apprentissage)

Automated Bobbing and Phase Analysis to Measure Walking Entrainment to Music

C Adolfo López-Méndez, Carina Westling, **Rémi Emonet**, Matt Easteal, Lisa Lavia, Harry Witchel, Jean-Marc Odobez

2014 - ICIP (International Conference on Image Processing)

Epidemic Contact Tracing via Communication Traces

J Katayoun Farrahi, **Rémi Emonet**, Manuel Cebrian

2014 - PLoS ONE

Temporal Analysis of Motif Mixtures using Dirichlet Processes

J **Rémi Emonet**, Jagannadan Varadarajan, Jean-Marc Odobez

2014 - TPAMI (Transactions on Pattern Analysis and Machine Intelligence)

<http://www.idiap.ch/resource/research/probamod-v1/>

What to Show? - Automatic Stream Selection among Multiple Sensors

C **Rémi Emonet**, Elisabeth Oberzaucher, Jean-Marc Odobez

2014 - VISAPP (International Conference on Computer Vision Theory and Applications)

Sparsity in Topic Models

B Jagannadan Varadarajan, **Rémi Emonet**, Jean-Marc Odobez

2014 - Practical Applications of Sparse Modeling: Biology, Signal Processing and Beyond

• Year 2013

Localized Anomaly Detection via Hierarchical Integrated Activity Discovery

C Thiyagarajan Chockalingam, **Rémi Emonet**, Jean-Marc Odobez

2013 - AVSS (IEEE conf. on Advanced Video and Signal-Based Surveillance)

Clustering flood events from water quality time-series using Latent Dirichlet Allocation model

J Alice Aubert, Romain Tavenard, **Rémi Emonet**, Alban De Lavenne, Simon Malinowski, Thomas Guyet, René Quiniou, Jean-Marc Odobez, Philippe Mérot, Chantal Gascuel-Odoux

2013 - Water Resources Research

Time-Sensitive Topic Models for Action Recognition in Videos

C Romain Tavenard, **Rémi Emonet**, Jean-Marc Odobez

2013 - ICIP (International Conference on Image Processing)

Discovering temporal patterns in water quality time series, focusing on floods with the LDA method

C Alice Aubert, Romain Tavenard, **Rémi Emonet**, Simon Malinowski, Thomas Guyet, René Quiniou, Jean-Marc Odobez, Chantal Gascuel-Odoux

2013 - European Geosciences Union (EGU)

A Sequential Topic Model for Mining Recurrent Activities from Long Term Video Logs

J Jagannadan Varadarajan, **Rémi Emonet**, Jean-Marc Odobez

2013 - IJCV (International Journal on Computer Vision)

<http://www.idiap.ch/resource/research/probamod-v1/>

• Year 2012

Automatic Discovery Of Recurrent Motion Activities

C **Rémi Emonet**, Jean-Marc Odobez, Elisabeth Oberzaucher

2012 - ISHE (Biennial International Conference on Human Ethology)

Unsupervised Activity Analysis and Monitoring algorithms for Effective Surveillance Systems

- C Jean-Marc Odobez, Cyril Carincotte, **Rémi Emonet**, Erwan Jouneau, Sofia Zaidenberg, Bertrand Ravera, François Bremond
2012 - ECCV (International Journal on Computer Vision), demonstration paper

Unsupervised Methods for Activity Analysis and Detection of Abnormal Events

- B **Rémi Emonet**, Jean-Marc Odobez
2012 - Intelligent Video Surveillance Systems

Méthodes non Supervisées Pour l'Analyse d'Activités et la Détection d'Évènements Anormaux

- B **Rémi Emonet**, Jean-Marc Odobez
2012 - Outils d'Analyse Vidéo pour une Pleine Exploitation des Données de Vidéoprotection

The Environment – Application – Adaptation (EAA) Architecture: introduction and details of an open implementation

- J **Rémi Emonet**
2012 - IntSys12v5n34 - Journal On Advances in Intelligent Systems
<http://eaa.heeere.com/>

Socio-Technical Network Analysis from Wearable Interactions

- C Katayoun Farrahi, **Rémi Emonet**, Alois Ferscha
2012 - ISWC (International Symposium on Wearable Computers)

Bridging the Past, Present and Future: Modeling Scene Activities From Event Relationships and Global Rules

- C Jagannadan Varadarajan, **Rémi Emonet**, Jean-Marc Odobez
2012 - CVPR (IEEE conf. Computer Vision and Pattern Recognition)

The OMiSCID 2.0 Middleware: Usage and Experiments in Smart Environments

- J Rémi Barraquand, Dominique Vaufraydaz, **Rémi Emonet**, Amaury Nègre, Patrick Reignier
2012 - Soft11v4n34, International Journal On Advances in Software

• Year 2011

★ Environment - Application - Adaptation: a Community Architecture for Ambient Intelligence

- C **Rémi Emonet**
2011 - AMBIENT (International Conference on Ambient Computing, Applications, Services and Technologies)
<publi-2011-ambient.html>

Multi-camera Open Space Human Activity Discovery for Anomaly Detection

- C **Rémi Emonet**, Jagannadan Varadarajan, Jean-Marc Odobez
2011 - AVSS (IEEE conf. on Advanced Video and Signal-Based Surveillance)

Extracting and Locating Temporal Motifs in Video Scenes Using a Hierarchical Non Parametric Bayesian Model

- C **Rémi Emonet**, Jagannadan Varadarajan, Jean-Marc Odobez
2011 - CVPR (IEEE conf. Computer Vision and Pattern Recognition)
<publi-2011-cvpr.html> <http://www.idiap.ch/resource/research/probamod-v1/>

• Year 2010

A Sparsity Constraint for Topic Models — Application to Temporal Activity Mining

- W Jagannadan Varadarajan, **Rémi Emonet**, Jean-Marc Odobez
2010 - NIPS workshop on Practical Application of Sparse Modeling: Open Issues and New Directions, in Whistler, British Columbia, Canada on December 11th, 2010

Extracting Motifs from Time Series Generated by Concurrent Activities

- W Jagannadan Varadarajan, **Rémi Emonet**, Jean-Marc Odobez
2010 - NIPS workshop on Learning and Planning from Batch Time Series Data, in Whistler, British Columbia, Canada on December 11th, 2010

★ Case Study of the OMiSCID Middleware: Wizard of Oz Experiment in Smart Environments

- C Rémi Barraquand, Dominique Vaufraydaz, **Rémi Emonet**, Jean-Pascal Mercier
2010 - The Fourth International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies (UBICOMM), Florence - Italy, oct 2010

Probabilistic Latent Sequential Motifs: Discovering temporal activity patterns in video scenes

- C Jagannadan Varadarajan, **Rémi Emonet**, Jean-Marc Odobez
2010 - BMVC (British Machine Vision Conference)

OMiSCID 2.0, un intergiciel libre et opensource pour la construction d'applications ubiquitaires

- F Rémi Barraquand, Dominique Vaufraydaz, **Rémi Emonet**, Amaury Nègre, Jean-Pascal Mercier, Patrick Reignier
2010 - Manifestation des Jeunes Chercheurs en Sciences et Technologies de l'Information et de la Communication (MaJeSTIC), Bordeaux, France, 2010

Selector Based Lookup

ω **Rémi Emonet**

2010 - DZone – Netbeans Zone

The post is quite specific so it does not create crowd reaction, but still it got more than 3500 views and got the attention of Jaroslav Tulach, original architect of Netbeans.

<http://netbeans.dzone.com/nb-selector-based-lookup>

• **Year 2009**

Semantic Description of Services and Service Factories for Ambient Intelligence

Rémi Emonet

2009 - Ph.D. Thesis at Grenoble University

• **Year 2008**

Usable developer-oriented Functionality Composition Language (UFCL): a Proposal for Semantic Description and Dynamic Composition of Services and Service Factories

Rémi Emonet, Dominique Vaufraydaz

2008 - 4th IET International Conference on Intelligent Environments

Osons le constructivisme, atelier de formation aux « débats scientifiques »

- F Marie-Caroline Croset, **Rémi Emonet**, Emmanuel Frangin, Carmen Galián, Frédéric Huguet, Michaël Sanrey, Julien Douady, Christophe Durand

2008 - 5ème Colloque sur les « Questions de Pédagogie dans l'enseignement supérieur »

• **Year 2007**

Autonomic Computer Vision Systems

- C James L. Crowley, Daniela Hall, **Rémi Emonet**

2007 - ICVS (International Conference on Computer Vision Systems)

Perceptive Services Composition using semantic language and distributed knowledge

- W **Rémi Emonet**, Dominique Vaufraydaz

2007 - CMPPC Workshop (PERVASIVE07) position articles

• **Year 2006**

An automatic approach for parameter selection in self-adaptive tracking

- C Daniela Hall, **Rémi Emonet**, James L. Crowley

2006 - VISAPP (International Conference on Computer Vision Theory and Applications)

O3MiSCID: an Object Oriented Opensource Middleware for Service Connection, Introspection and Discovery

- W **Rémi Emonet**, Dominique Vaufraydaz, Patrick Reignier, Julien Letessier

2006 - 1st IEEE International Workshop on Services Integration in Pervasive Environments

A Lightweight Speech Detection System for Perceptive Environments

- W Dominique Vaufraydaz, **Rémi Emonet**, Patrick Reignier

2006 - 3rd Joint Workshop on Multimodal Interaction and Related Machine Learning Algorithms

O3MiSCID, un intergiciel sous OSGi pour l'informatique ubiquitaire

- F Patrick Reignier, Sonia Zaidenberg, **Rémi Emonet**, Dominique Vaufraydaz, Julien Letessier

2006 - Atelier OSGi, 3e Journées Francophones Mobilité et Ubiquité

• **Year 2005**

Comparison of target detection algorithms using adaptive background models

- W Daniela Hall, J. Nascimento, P. Ribeiro, E. Andrade, P. Moreno, Sebastien Pesnel, T. List, **Rémi Emonet**, R.B. Fisher, J. Santos Victor, James L. Crowley

2005 - International workshop on Performance evaluation of Tracking and Surveillance