



# The CVWW2012 program

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## Wednesday, February 1st

- 11:00 – 13:00 Arrival
- 12:00 – 14:00 Lunch
- 14:00 – 14:15 Opening
- 14:15 – 15:00 **Invited talk: Wolfram Burgard**
- 15:00 – 15:45 **Oral Session 1: Multicamera systems** (Chair: Stanislav Kovačič)
- 15:45 – 16:15 Coffee break
- 16:15 – 17:45 **Oral Session 2: Robotic vision** (Chair: Markus Vincze)
- 18:00 – 20:00 Dinner
- 20:00 – later Socializing

## Thursday, February 2nd

- 7:00 – 9:00 Breakfast
- 9:00 – 10:30 **Oral Session 3: Detection and categorization** (Chair: Horst Bischof)
- 10:30 – 11:00 Coffee Break
- 11:00 – 12:10 **Oral Session 4: Machine learning** (Chair: Vaclav Hlavac)
- 12:10 – 12:25 **Poster and Demo Spotlight**
- 12:25 – 14:30 Lunch
- 14:30 – 16:30 **Poster+Demo session**
- 16:00 – 16:30 Coffee and refreshments
- 16:30 – 20:00 Swimming
- 20:00 – later Conference Dinner

## Friday, February 3rd

- 7:00 – 9:00 Breakfast
- 9:00 – 10:30 **Oral Session 5: 3D vision** (Chair: Aleš Leonardis)
- 10:30 – 11:00 Coffee Break
- 11:00 – 12:10 **Oral Session 6: Tracking and activity recognition** (Chair: Walter Kropatsch)
- 12:10 – 12:25 Closing and next CVWW
- 12:25 – 14:30 Lunch



# Scientific program

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## Wednesday, February 1st

### 14:15 – 15:00 Invited talk: Wolfram Burgard

### 15:00 – 15:45 Oral Session 1: Multicamera systems

- Unsupervised Calibration of Camera Networks and Virtual PTZ Cameras  
*Horst Possegger\*, Matthias Ruether, Sabine Stering, Thomas Mauthner, Manfred Klopschitz, Peter Roth, Horst Bischof (Graz University of Technology)*
- Computer-Vision Centric Design of a Visual Sensor Network Node  
*Bostjan Murovec, Janez Perš\*, Vildana Sulic, Rok Mandeljc, Stanislav Kovacic (University of Ljubljana)*

### 16:15 – 17:45 Oral Session 2: Robotic vision

- Feature Extraction from Dense 2D Range Images for Service Robotics  
*Peter Einramhof\*, Robert Schwarz, Markus Vincze (Vienna University of Technology)*
- Room Classification using a Hierarchical Representation of Space  
*Peter Uršič\*, Matej Kristan, Danijel Skočaj, Aleš Leonardis (University of Ljubljana)*
- Photogrammetric Camera Network Design for Micro Aerial Vehicles  
*Christof Hoppe\*, Andreas Wendel, Stefanie Zollmann, Katrin Pirker, Arnold Irschara, Horst Bischof, Stefan Kluckner (Graz University of Technology, Siemens)*
- Airborne Inspection using Single-Camera Interleaved Imagery  
*Michael Maurer\*, Andreas Wendel, Horst Bischof (Graz University of Technology)*

## Thursday, February 2nd

### 9:00 – 10:30 Oral Session 3: Detection and categorization

- Histogram of Compositions: Improving low-level descriptors by learning shape compositions  
*Domen Tabernik\*, Matej Kristan, Marko Boben, Aleš Leonardis (University of Ljubljana)*
- A Holistic Verification Approach for Implicit Shape Model  
*Samuel Schulter\*, Paul Wohlhart, Peter Roth, Horst Bischof (Graz University of Technology)*
- Slow feature analysis for autonomous learning object categories from videos  
*Max Stricker\*, Peter Roth, Horst Bischof (Graz University of Technology)*
- Towards Scene Understanding – Object Segmentation Using RGBD-Images  
*Andreas Richtsfeld\*, Thomas Mörwald, Johann Prankl, Joathan Balzer, Michael Zillich, Markus Vincze (Vienna University of Technology)*

### 11:00 – 12:10 Oral Session 4: Machine learning

- Efficient Algorithm for Regularized Risk Minimization  
*Michal Uricar\*, Vojtech Franc (Czech Technical University in Prague)*
- Minimization via Approximated Convex Envelopes  
*Stefan Heber\*, Rene Ranftl, Thomas Pock (Graz University of Technology)*
- Comparing different learning approaches in categorical knowledge acquisition  
*Danijel Skočaj\*, Matjaž Majnik, Matej Kristan, Aleš Leonardis (University of Ljubljana)*

### 12:10 – 12:25 Poster and Demo Spotlight

### 14:30 – 16:30 Poster+Demo session

- Nao robot navigation based on a single VGA camera  
*Šimon Fojtů\*, Martin Bresler, Daniel Průša (Czech Technical University in Prague)*
- Text localization in Unconstrained Images  
*Georg Poier\*, Peter Roth, Jürgen Hatzl, Stefan Kluckner, Horst Bischof (Siemens, Graz University of Technology)*
- Bottom-Up Visual Attention System based on Reflectivity and Range Images  
*Robert Schwarz\*, Peter Einramhof, Markus Vincze (Vienna University of Technology)*
- Relevance Determination for Learning Vector Quantization using the Fisher Criterion Score  
*Barry Ridge\*, Ales Leonardis, Danijel Skočaj (University of Ljubljana)*
- Towards automatic classification of the Parkinson's patient stiffness from a single videosequence captured in a home environment  
*Miloslav Klinger\*, Vasek Hlavac (Czech Technical University in Prague)*
- Using Aspect Graphs for View Synthesis  
*Geetha Ramachandran\*, Walter Kropatsch (Vienna University of Technology)*
- Learning local distance functions for place recognition  
*Petr Gronát\*, Josef Šivic, Tomas Pajdla (ENS / INRIA, Czech Technical University in Prague)*
- Region based contouring variation measurement  
*Peter Rogelj\*, Branko Kavšek (University of Primorska)*

## Friday, February 3rd

### 9:00 – 10:30 Oral Session 5: 3D vision

- Rapid 3D City Model Approximation from Publicly Available Geographic Data Sources and Georeferenced Aerial Images  
*Markus Rumpler\*, Arnold Irschara, Andreas Wendel, Horst Bischof (Graz University of Technology)*
- Integral Integral Shape From Focus  
*David Ferstl\*, Martin Lenz, Matthias Ruether, Horst Bischof (Graz University of Technology)*
- Fast Pose Estimation from Silhouettes in Video Sequences  
*Christian Reinbacher\*, Matthias Ruether, Horst Bischof (Graz University of Technology)*
- Analysis and Evaluation of Shape Functions for Object Class Recognition  
*Walter Wohlkinger\* (Vienna University of Technology)*

### 11:00 – 12:10 Oral Session 6: Tracking and activity recognition

- Towards Frame-by-Frame Multi-View Detection, Localization and Identification of People by Fusion of Multi-Modal Feature Maps  
*Rok Mandeljc\*, Janez Perš, Matej Kristan, Stanislav Kovacic (University of Ljubljana)*
- Online Model-Based Multi-Scale Pose Estimation  
*Thomas Kempter\*, Andreas Wendel, Horst Bischof (Graz University of Technology)*
- Real-time Activity Repetition Detection  
*Markus Murschitz, Thomas Mauthner\*, Peter Roth, Horst Bischof (Graz University of Technology)*



## Conference dinner menus

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<b>Menu 1 (meat)</b>	<b>Menu 2 (meat)</b>	<b>Menu 3 (vegetarian)</b>
<b>COLD APPETIZER OR SOUP</b>		
Smoked meat in aspic jelly (tünka) with lard and onion rings Home-made dark bread <i>or</i> Beef soup with homemade noodles <i>or</i> Mushroom soup with buckwheat alloyed with sour cream	Smoked beef tongue with mushrooms Salmon with fresh ricotta <i>or</i> Beef soup with homemade noodles <i>or</i> Mushroom soup with buckwheat alloyed with sour cream	A rich selection of soft and hard cheeses Black bread <i>or</i> Mushroom soup with buckwheat alloyed with sour cream
<b>MAIN DISH</b>		
Veal cutlet in mustard sauce Roasted potatoes with cracklings Cottage cheese dumplings Beans	Beef cooked in wine sauce Chicken fillet marinated with pumpkin seeds and fried <i>side dish</i> Roasted potatoes with cracklings Sweet braised cabbage	Cottage cheese dumplings and meals medallions Risotto with mushrooms and gorgonzola Chard with potatoes Vegetables
<b>SALAD</b>		
mixed salad	mixed salad	mixed salad
<b>DESSERT</b>		
apple strudel	baked <i>kvasenica</i>	Prleška cake



**CVWW2012**  
COMPUTERVISIONWINTERWORKSHOP

## Participants

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ID	Name	Surname
1	Luka	Čehovin
2	Peter	Rogelj
3	Walter	Kropatsch
4	Yil	Haxhimusa
5	Fuensanta	Torres
6	Roland	Perko
7	Matej	Kristan
8	Ales	Leonardis
9	Wilhelm	Burger
10	Andreas	Richtsfeld
11	Peter	Einramhof
12	Stanislav	Kovačič
13	Geetha	Ramachandran
14	Thomas	Mauthner
15	Martin	Godec
16	Sabine	Sternig
17	Christian	Reinbacher
18	Rene	Ranftl
19	Michael	Maurer
20	Stefan	Heber
21	Andreas	Wendel
22	Christof	Hoppe
23	Vildana	Sulic
24	Markus	Rumpler
25	Horst	Possegger
26	Thomas	Kempter
27	Max	Stricker
28	Samuel	Schulter
29	Domen	Tabernik
30	Janez	Pers
31	David	Ferstl
32	Markus	Vincze
33	Rok	Mandeljc
34	Peter	Uršič
35	Bostjan	Murovec
36	Barry	Ridge
37	Matjaž	Majnik

ID	Name	Surname
38	Šimon	Fojtů
39	Martin	Bresler
40	Michal	Uricar
41	Walter	Wohlkinge
42	Horst	Bischof
43	Petr	Gronát
44	Miloslav	Klinger
45	Alen	Vrečko
46	Hatzl	Juergen
47	Marko	Mahnič
48	Danijel	Skočaj
49	Milan	Vlcek
50	Vaclav (Vasek)	Hlavac
51	Wolfram	Burgard
52	Markus	Murschitz