# **FINAL PROGRAM**





# 2008



13-15, August 2008 Montreal, Canada

Organized by







# **Co-Sponsored by**













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# Contents

## 1.1 Conference Location

The Conference itself is held at

Trottier Building 3630 University Street Montreal, Quebec H3A 2B2

The registration desk will be placed in the hallway in front of the meeting rooms. Registration will start on Wednesday at 8.00 a.m. till 5.00 p.m. On Thursday it will be from 8.30 a.m. - 4.00 p.m.

## ALL MAPS ARE AT THE BACK OF THIS PROGRAMME

# 1.2 How to get there

The way to the conference rooms will be signposted.

# 1.3 Badges

Each registrant will receive a name badge upon registration. The badge must be worn in order to be admitted to the technical sessions, lunches and social event. Participants to the two events will be designated by differently coloured dots.

## 1.4 Tickets

Extra tickets for the social event and lunches are available from the registration desk.

Price: (or equivalent in another currency) for extra tickets. All participants will be issued with tickets for lunch and the conference dinner

conference dinner:	CAD 45
lunch	CAD 20

# 1.5 Registration

The **GAMEON-NA'2008-NASTEC'2008** Registration Desk will be open for information and registration:

Wednesday, August 13 ...... 8.00 a.m. to 5.00 p. m. in the hallway Thursday, August 14 ....... 8.30 a.m. to 4.00 p. m. in the hallway

# 1.6 Conference Proceedings

Each fully paid registrant will be provided with a copy of the Conference Proceedings relevant to his or her track (printed format). (Extra copies are available on a cash and carry basis at special rates during GAMEON-NA'2008-NASTEC'2008)

Price: (or equivalent in another currency) for an extra copy

GAMEON-NA'2008 Proceedings	CAD 45
NASTEC'2008 Proceedings	CAD 45

Other Proceedings can be ordered using the forms available at the conference.

# 1.7 Meeting Rooms

The meeting rooms will be designated and signposted as ROOM A (GAMEON-NA) and -B (NASTEC) at the conference.

## 1.8 Internet Connections

**Guest accounts** to use the **WIFI network** have been requested for the duration of the conference. More information will be available at the conference.

# 1.9 Need Help?

Please see the conference desk for your questions

## 1.10 Social Events and Lunches

All registrants are invited to

The get-together party will be held on Wednesday August 13<sup>th</sup> at 5.30 p.m at McGill University, as well as the coffee breaks.

**Lunches** on **Wednesday** and **Thursday** will be served outside the University in **a restaurant** nearby.

# **Seneral Information**

#### The Conference Dinner

All participants are invited to the conference dinner which will be held at l'Hotel de L'Institut on Thursday the 14th of August from 8.00 p.m. onwards. As we need to give an exact number of participants we would appreciate your confirmation at the desk before Wednesday evening. (for those who have as yet not done so)

Hôtel de l'Institut Institut de tourisme et d'hôtellerie du Québec 3535, rue Saint-Denis Montréal (Québec) H2X 3P1

Tel.: **(514) 282-5171** Fax: **(514) 873-9893** 

# 1.12 Best Paper Award

During the conference the papers, which were **accepted as extended papers** will be judged by the committee in order to choose the best paper of the GAMEON-NA'2008 and NASTEC'2008 conference.

# 1.13 Paper Legend:

Each paper is designated before each paper by it's number. This number has to be entered on the form for the best paper award

Each Room has an LCD projector and an overhead projector

ALL SESSION CHAIRPERSONS IN THIS PROGRAM ARE
PROVISIONAL AND MAY BE SUBJECT TO CHANGE AT THE
EVENT

THE NUMBERS NEXT TO THE PRESENTATIONS DENOTE
THE PAGE-NUMBERS IN THE PROCEEDINGS. IF NO
NUMBERS ARE MENTIONED THEN THIS PAPER IS NOT
PUBLISHED IN THE PROCEEDINGS

THE AUTHORS WHO ARE UNDERLINED ARE NORMALLY THE PRESENTERS

PAPERS IN GREY BOXES ARE THE EXTENDED PAPERS
ELIGIBLE FOR THE BEST PAPER AWARD

CHECK OUT THE OTHER EUROSIS EVENTS ON OUR WEBSITE:

http://www.eurosis.org

General Information

WEDNES	SDAY, 13 <sup>th</sup> AUGUST 2008	
08.00-17.00	REGISTRATION	
	PARALLEL SESSIONS	
09.00-10.00	ROOM A	ROOM B
	WELCOME AND INVITED SPEAKER I	WELCOME AND INVITED SPEAKER
10.00-10.30	COFFEE BREAK	
	PARALLEL SESSIONS	
10.30-12.30	ROOM A	ROOM B
	PATH FINDING AND MAPS	SOFT COMPUTING THEORY AND PRACTICE
12.30-14.00	LUNCH BREAK	
	PARALLEL SESSIONS	
14.00-15.00	ROOM A	ROOM B
	TUTORIAL I	INVITED SPEAKER II
15.00-15.30	COFFEE BREAK	
15.30-17.30	ROOM A	ROOM B
	CONTENT ADJUSTMENT	SIMULATION BASED SOFTWARE ENGINEERING
17.30-18.15		INVITED SPEAKER III
17.15-18.30	GET-TOGETHER PARTY	

THURSD	AY, 14 <sup>th</sup> AUGUST 2008	
08.30-16.00	REGISTRATION	
	PARALLEL SESSIONS	
09.00-10.00	ROOM A	ROOM B
	DEMO	INVITED SPEAKER IV
10.00-10.30	COFFEE BREAK	
10.30-12.30	PARALLEL SESSIONS	
	ROOM A	ROOM B
	GAME SCRIPTING AND GAME AI	WEB COMPUTING AND COGNITIVE SIMULATION
12.30-14.00	LUNCH BREAK	
	PARALLEL SESSIONS	
14.00-15.00	ROOM A	ROOM B
	TUTORIAL II	TUTORIAL
15.00-15.30	COFFEE BREAK	
	PARALLEL SESSIONS	
15.30-17.00	ROOM A	ROOM B
	INTERACTION AND IMMERSIVE GAMEPLAY	WEB COMPUTING AND INDUSTRIAL APPLICATIONS
17.00-17.15	CLOSING SESSION	CLOSING SESSION
20.00-22.30	CONFERENCE DINNER	

FRIDAY 15 <sup>TH</sup> AUGUST 2008		
09.30-09.45	MEETING AT MCGILL UNIVERSITY	
10.00-12.00	VISIT TO EA	

**HALLWAY** 

Registration

08.30 - 17.00

09.00 - 09.15



# ROOM A- 09.00-09.15 Opening GAMEON-NA'2008 and Welcome Address

Hans Vangheluwe and Clark Verbrugge McGill University GAMEON-NA'2008 Conference Chairs



# ROOM B- 09.00-09.15 Opening NASTEC'2008 and Welcome Address

Mokthar Beldjahem École Polytechnique de Montreal NASTEC'2008 Conference Chair

09.15 - 10.00



ROOM A- 09.15-10.00 INVITED SPEAKER

Chair: Hans Vangheluwe, McGill University, Montreal, Canada

INV



ROOM B-	09.1	5-1	0.00
INIVITED			

Chair: Mokhtar Beldjehem, École Polytecnique de Montreal, Canada

**INV-01** 

10.00 - 10.30 COFFEE BREAK

10.30 - 12.30



ROOM A- 10.30-12.00 PATH FINDING AND MAPS Chair: Jörg Kienzle, McGill University, Montreal, Canada  GAMEON_NA_03 A Territory based Path Finding Approach for Computer Games Jiajia Tang and Liang Chen
GAMEON_NA_01  Dynamic Motion Patches in Configurable Environments for Character  Animation and Path Planning  Kelson Gist and Xin Li
GAMEON_NA_02 Playable Maps /Sensitive Maps: Materializing the Learner's Mental Map Sandro Varano, Jean-Claude Bignon and Didier Bur
ROOM B- 10.30-12.30 SOFT COMPUTING: THEORY AND PRACTICE Chair: Mokhtar Beldjehem, École Polytechnique de Montreal, Canada
SOFTSIM_06 Modeling Numerical and Spatial Uncertainty in Grayscale Image Capture using Fuzzy Set Theory M. Nachtegael, P. Sussner, T. Mélange and E.E. Kerre15
SOFTSIM_04 A Granular Unified Min-Max Fuzzy-Neuro Framework for Learning Fuzzy Systems Mokhtar Beldjehem

**COFFEE BREAK** 

	Wednesday, 13" August 2008
	SOFTSIM_08 Prediction of Ferrous Bio-oxidation Rate in a Packed Bed Bioreactor using Artificial Neural Network Hasan Yousefi, S. Mohammad Mousavi, <u>Arezou Jafari</u> and Azita Soleymani31
	SOFTSIM_09 Extension of Rank Based Ant System with Exponential Pheromone Deposition for Speed-up and Improved Accuracy Ayan Acharya, Aritra Banerjee, Amit Konar and Mokhtar Beldjehem
	12.30 - 14.00 LUNCH BREAK
	14.00 – 15.00
-	ROOM A- 14.00-15.00 TUTORIAL I Chair: Clark Verbrugge, McGill University, Montreal, Canada  TUT-1 Affective Computing for Game Development Eva Hudlicka
	ROOM B- 14.00-15.00 INVITED SPEAKER II Chair: Mokthar Beldjehem, École Polytecnique de Montreal, Canada INV-02 Glorious Accidents or Expected Results? Peter Grogono9
	15.00 - 15.30

15.30 - 17.30



ROOM A- 15.30-17.00 CONTENT ADJUSTMENT Chair: Hans Vangheluwe, McGill University, Montreal, Canada
GAMEON_NA_08 Content-Adjustment Mechanism for Console Gaming Jiajia Tang and Liang Chen37
GAMEON_NA_06 An Iterated Subdivision Algorithm for Procedural Road Plan Generation Nicholas Rudzicz and Clark Verbrugge
GAMEON_NA_17 Wall-Building in RTS Games Abhishek Chawan and Dmitri Volper48
ROOM B - 15.30-17.30 SIMULATION BASED SOFTWARE ENGINEERING Chair: Mokhtar Beldjehem, École Polytechnique de Montreal, Canada
SOFTSIM_01 Monte Carlo Validation of Model Stability Pierre N. Robillard and Simon Labelle
SOFTSIM_07 Standard Error Estimation for EM Applications related to Latent Class Models Liberato Camilleri
SOFTSIM_05 A Petri net framework for the modeling, simulation and data analysis of biological models Simon Hardy and Pierre N. Robillard

# SOFTSIM\_10

A Granular Unified Framework for a Machine Visual System Mokhtar Beldjehem.....41

17.30 - 18.15



**ROOM B - 17.30-18.15 INIVTED SPEAKER** 

Chair: Mokhtar Beldjehem, École Polytechnique de Montreal,

Canada

**INV 04** 

**Probabilistic Reasoning in connection with Modelling and Simulation Brigitte Jumard** 

17.15 - 18.30 **GET-TOGETHER PARTY at the University** 

**HALLWAY** 

Registration

08.30 - 16.00

09.00 - 10.00



ROOM A- 09.00-10.00 DEMO SESSION

Chair: Jörg Kienzle, McGill University, Montreal, Canada

# MORE INFORMATION AT THE CONFERENCE

Information about this session will be available upon registering on Wednesday Morning



ROOM B - 09.00-10.00 INIVTED SPEAKER

Chair: Mokhtar Beldjehem, École Polytechnique de Montreal,

Canada

**INV-03** 

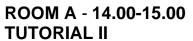
10.00 - 10.30 COFFEE BREAK



# Parallel Sessions - Thursday

# Thursday, 14<sup>th</sup> August 2008

SOFTSIM_03  A Granular Framework for Recognition of Arabic Handwriting: The GOAVMREC System	`,
Mokhtar Beldjehem81	
SOFTSIM_02 Behavior Based Predictive Motion Controller for a Mobile Robot Krzysztof Skrzypczyk, Krzysztof Fujarewicz and Adam Galuszka89	
WEB_03 Cognitive Modeling of a Cooking Activity: Integration of the Contention Scheduling Theory in the Cognitive Architecture ACT-R Pierre-Yves Groussard and Hélène Pigot94	
12.30 - 14.00 LUNCH BREAK	
14.00 - 15.00	



Chair: Clark Verbrugge, McGill University, Montreal, Canada

**TUT-02** 

Understanding Wargame Outcomes (and Why they Make no Sense!) Joseph M.Saur



**ROOM B - 14.00-15.00 TUTORIAL** 

Chair: Mokhtar Beldjehem, Ecole Polytechnique de Montreal,

Canada

TUT

Mining and Analyzing Web-Based Social Networks using ORA Terrill L.Frantz

**Towards Immersive Multimodal Gameplay** 

15.00 - 15.30 COFFEE BREAK

15.30 - 17.00

GAMEON\_NA\_09



# ROOM A - 15.30-17.00 INTERACTION AND IMMERSIVE GAMEPLAY Chair: Hans Vangheluwe, McGill University, Montreal, Canada

Mitchel Benovoy, Mark Zadel, Rafa Absar, Mike Wozniewski and Jeremy R.Cooperstock
GAMEON_NA_13 Modelling Highly-Structured Turn Based Games Using Interaction Beliefs N. B. Szirbik, G. B. Roest and M. Stuit
GAMEON_NA_18 Using Genetic Algorithms to evolve Character Behaviours in Modern Video Games T. Bullen and M. Katchabaw
ROOM B 15.30-17.00
WBE COMPUTING AND INDUSTRIAL APPLICATIONS Chair: Mokhtar Beldjehem, École Polytechnique de Montreal, Canada
WEB_01 Developing an Ontology Extraction Agent for a Biomedical Learning Social Network
S. Mohammed, J. Fiaidhi and O. Mohammed99
0.057.014.44
SOFTSIM_11 Moving Containers in Small Terminal as Strips Planning Problem-Preliminary Results

VR 02

Introduction to Comparison of Traditional and Virtual Patterns Design in 3D

Agnieszka Cichocka and Pascal Bruniaux......110

17.00 - 17.15

ROOM A - 17.00-17.15 CLOSING SESSION AND BEST PAPER AWARD

Chair: Hans Vangheluwe, McGill University, Montreal, Canada



ROOM B - 17.00-17.15 CLOSING SESSION AND BEST PAPER AWARD

Chair: Mokhtar Beldjehem, École Polytechnique de Montreal,

Canada

# 20.00 – 22.30 GAMEON-NA-NASTEC 2008 Conference Dinner

Hôtel de l'Institut Institut de tourisme et d'hôtellerie du Québec 3535, rue Saint-Denis Montréal (Québec) H2X 3P1

Tel.: **(514) 282-5171** Fax: **(514) 873-9893** 

# Friday, 15<sup>th</sup> August 2008

**HALLWAY** 

Meeting for the visit to Electronic Associates 09.30 - 09.45

10.00 - 12.00



# 10.00-12.00 VISIT TO ELECTRONIC ASSOCIATES



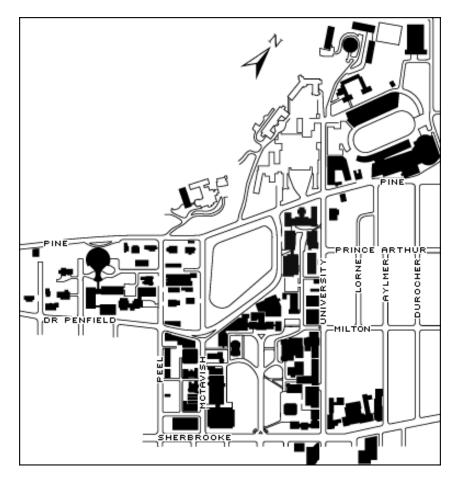
EA Montreal 3 Place Ville Marie Suite 12350 Mtl, Qc H3B 5L6

SEE YOU ALL NEXT YEAR

AT

GAMEON-NA'2009-NASTEC'2009

# **Conference Site Map**



McGill University

Map

Trottier Building
3630 University Street
Montreal, Quebec H3A 2B2
Building Opposite Prince Arthur

Conference Site Map

# eurosis

EUROSIS was borne out of discussions with the European Community to set up a new kind of Society, which would be project-driven instead of driven by pure membership and conferences.

The aim of EUROSIS is to set up topic related Technical Committees which will link directly to European Projects in the field of computer simulation and related areas and to act as a knowledge pool for future European Networks of Excellence, like MOSAIC.

If you would like to receive more information about EUROSIS, please contact

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