

CONTENTS

Preface	IX
Scientific Programme	1
Author Listing.....	115

INVITED SPEECH

Affective Computing for Game Development Eva Hudlicka	5
---	----------

PATH FINDING AND MAPS

A Territory based Path Finding Approach for Computer Games Jiajia Tang and Liang Che	15
--	-----------

Dynamic Motion Patches in Configurable Environments for Character Animation and Path Planning Kelson Gist and Xin Li.....	21
---	-----------

Playable Maps /Sensitive Maps: Materializing the Learner's Mental Map Sandro Varano, Jean-Claude Bignon and Didier Bur.....	30
---	-----------

CONTENT ADJUSTMENT

Content-Adjustment Mechanism for Console Gaming Jiajia Tang and Liang Chen	37
--	-----------

An Iterated Subdivision Algorithm for Procedural Road Plan Generation Nicholas Rudzicz and Clark Verbrugge	40
--	-----------

Wall-Building in RTS Games Abhishek Chawan and Dmitri Volper	48
--	-----------

INTERACTION AND IMMERSIVE GAMEPLAY

Towards Immersive Multimodal Gameplay Mitchel Benovoy, Mark Zadel, Rafa Absar, Mike Wozniewski and Jeremy R.Cooperstock.....	57
---	-----------

CONTENTS

Modelling Highly-Structured Turn Based Games Using Interaction Beliefs
N. B. Szirbik, G. B. Roest and M. Stuit 63

Using Genetic Algorithms to evolve Character Behaviours in Modern Video Games
T. Bullen and M. Katchabaw 68

GAME SCRIPTING

Using Lua as Script Language in Games Coded in Java
Gustavo Henrique Soares de Oliveira Lyrio and
Roberto de Beauclair Seixas 79

Automating Cinematics and Cut Scenes in Video Games through Scripting with Active Performance Objects
V. Bonduro and M. Katchabaw 83

Generation of Variations in Repetitive Motion using Bilinear Factorization
Chao Jin, Thomas Fevens and Sudhir Mudur 91

GAME AI

Variable Resolution A*
Kyle Walsh and Bikramjit Banerjee..... 103

Goal Oriented Behaviour Trees: A new Strategy for controlling Agents in Games
Yingying She and Peter Grogono 108