ALIFE 2022 Schedule

18th (Mon) 09:30 - 10:00	Conference opening by the Organizers	
18th (Mon) 10:00 - 10:20	Main track introduction	10:00 - 11:30 Langtons Ant (I)
18th (Mon) 10:20 - 10:40	Jonathan Lawry Heterogeneity and Robustness in Social Learning	
18th (Mon) 10:40 - 11:00	Yasuhiro Shimada, Wataru Nogi Bottom-up formation of number representation and top-down understanding of symbolic manipulation	
18th (Mon) 11:00 - 11:15	Mikihiro Suda, Takumi Saito and Exploration and exploitation of the adjacent possible space for open-endedness	
18th (Mon) 11:15 - 11:30	Joshua Bensemann, Padriac Am Simulations and the evolution of consciousness	
18th (Mon) 11:30 - 11:50	Hiroki Sayama A Partial Integro-Differential Equation-Based Model of Adaptive Social Network Dynamics	11:30 - 13:00 Langtons Ant (II)
18th (Mon) 11:50 - 12:10	Roger Tucker Towards a Unified Framework for Technological and Biological Evolution	
18th (Mon) 12:10 - 12:30	Ndidi Bianca Ogbo, Theodor Cin Shake on It: The Role of Commitments and the Evolution of Coordination in Networks of Technology Firms	
18th (Mon) 12:30 - 12:45	Alexander Lalejini, Austin J. Fer: The evolution of adaptive phenotypic plasticity stabilizes populations against environmental fluctuations	
18th (Mon) 12:45 - 13:00	James Garner and Matthew Egt Is Prediction Required? Using Evolutionary Robotics to Investigate How Systems Cope with Self-Caused Stimuli	
18th (Mon) LUNCH		
18th (Mon) 14:00 - 14:20	Tessa van der Heiden, Herke va Reliably Re-Acting to Partner's Actions with the Social Intrinsic Motivation of Transfer Empowerment	14:00 - 15:30 ERA Workshop
18th (Mon) 14:20 - 14:40	Teruto Endo, Hirotake Abe and Toward automatic generation of diverse congestion control algorithms through co-evolution with simulation environments	
18th (Mon) 14:40 - 15:00	Bente Riegler, Daniel Polani and The Information Complexity of Navigating with Momentum	
18th (Mon) 15:00 - 15:15	Manh Hong Duong Duong and 1 Cost-efficiency of institutional reward and punishment in cooperation dilemmas	
18th (Mon) 15:15 - 15:30	Matthew Egbert Towards Adaptive Sensorimotor Autonomy: Developing a system that can adapt to its own emergent and dynamic needs	
18th (Mon) 15:30 - 15:50	Claire Schregardus, Michael Wi: Dirty Transmission Hypothesis: Increased Mutations During Horizontal Transmission Can Select for Increased Levels of Mutualism in Endosymbionts	15:30 - 17:00 WiDWS
18th (Mon) 15:50 - 16:10	Matthew Andres Moreno, Emily Hereditary Stratigraphy: Genome Annotations to Enable Phylogenetic Inference over Distributed Populations	
18th (Mon) 16:10 - 16:30	Jonathan Young and Simon Colt Finding Chemical Organisations in Matter-Conserving AChems	
18th (Mon) 16:30 - 16:45	Michael Wong and Stuart Bartle On the Trajectories of Planetary Civilizations: Asymptotic Burnout vs. Homeostatic Awakening	
18th (Mon) 17:00 - 18:00	Keynote: Rob Dunn	
19th (Tue) 09:00 - 10:00	Keynote: Masatoshi Funabashi	
19th (Tue) 09:00 - 10:00 19th (Tue) 10:20 - 10:40	Keynote: Masatoshi Funabashi Tadayuki Matsumura, Kanako E Empathic Active Inference: Active Inference with Empathy Mechanism for Socially Behaved Artificial Agent	10:00 - 11:30 CHEMALIFORMS II
		10:00 - 11:30 CHEMALIFORMS II
19th (Tue) 10:20 - 10:40	Tadayuki Matsumura, Kanako E Empathic Active Inference: Active Inference with Empathy Mechanism for Socially Behaved Artificial Agent	10:00 - 11:30 CHEMALIFORMS II
19th (Tue) 10:20 - 10:40 19th (Tue) 10:40 - 11:00	Tadayuki Matsumura, Kanako E Empathic Active Inference: Active Inference with Empathy Mechanism for Socially Behaved Artificial Agent David Herel, Dominika Zogatoνε Emergence of Novelty in Evolutionary Algorithms	10:00 - 11:30 CHEMALIFORMS II
19th (Tue) 10:20 - 10:40 19th (Tue) 10:40 - 11:00 19th (Tue) 11:00 - 11:15	Tadayuki Matsumura, Kanako E Empathic Active Inference: Active Inference with Empathy Mechanism for Socially Behaved Artificial Agent David Herel, Dominika Zogatova Emergence of Novelty in Evolutionary Algorithms Lukas Bostelmann-Arp, Andrea Multi-Objective Evolutionary Game Theory: A case study in cancer therapy	10:00 - 11:30 CHEMALIFORMS II 11:30 - 13:00 OGD-CLEA (I)
19th (Tue) 10:20 - 10:40 19th (Tue) 10:40 - 11:00 19th (Tue) 11:00 - 11:15 19th (Tue) 11:15 - 11:30	Tadayuki Matsumura, Kanako E Empathic Active Inference: Active Inference with Empathy Mechanism for Socially Behaved Artificial Agent David Herel, Dominika Zogatova Emergence of Novelty in Evolutionary Algorithms Lukas Bostelmann-Arp, Andrea Multi-Objective Evolutionary Game Theory: A case study in cancer therapy Martin Stefanec and Thomas Sc PPS3D: A 3D Variant of the Primordial Particle System	11:30 - 13:00 OGD-CLEA (I)
19th (Tue) 10:20 - 10:40 19th (Tue) 10:40 - 11:00 19th (Tue) 11:00 - 11:15 19th (Tue) 11:15 - 11:30 19th (Tue) 11:30 - 11:50	Tadayuki Matsumura, Kanako E Empathic Active Inference: Active Inference with Empathy Mechanism for Socially Behaved Artificial Agent David Herel, Dominika Zogatova Emergence of Novelty in Evolutionary Algorithms Lukas Bostelmann-Arp, Andrea Multi-Objective Evolutionary Game Theory: A case study in cancer therapy Martin Stefanec and Thomas Sc PPS3D: A 3D Variant of the Primordial Particle System Kasper Stoy Towards Computationally Efficient Evolutionary Robotics Mia-Katrin Kvalsund, Kyrre Glet Centralized and Decentralized Control in Modular Robots and The 12:00 - 12:20 Arend Hintze, Yasir Imam and L. Testing the Efficiency of a Genome-Wide Association Study on a C Innovation and informal knowledge ex Imran Khan and Christopher S: A Participatory Complex Systems Model Innovation and informal knowledge ex Imran Khan and Christopher S: A Participatory Complex Systems Model	11:30 - 13:00 OGD-CLEA (I)
19th (Tue) 10:20 - 10:40 19th (Tue) 10:40 - 11:00 19th (Tue) 11:00 - 11:15 19th (Tue) 11:15 - 11:30 19th (Tue) 11:30 - 11:50 19th (Tue) 11:50 - 12:10	Tadayuki Matsumura, Kanako E Empathic Active Inference: Active Inference with Empathy Mechanism for Socially Behaved Artificial Agent David Herel, Dominika Zogatova Emergence of Novelty in Evolutionary Algorithms Lukas Bostelmann-Arp, Andrea Multi-Objective Evolutionary Game Theory: A case study in cancer therapy Martin Stefanec and Thomas Sc PPS3D: A 3D Variant of the Primordial Particle System Kasper Stoy Towards Computationally Efficient Evolutionary Robotics 11:30 - 12:00 Special Session Alife and Society: Invited Talk (TBC) Mia-Katrin Kvalsund, Kyrre Glet Centralized and Decentralized Control in Modular Robots and The	11:30 - 13:00 OGD-CLEA (I)
19th (Tue) 10:20 - 10:40 19th (Tue) 10:40 - 11:00 19th (Tue) 11:00 - 11:15 19th (Tue) 11:15 - 11:30 19th (Tue) 11:30 - 11:50 19th (Tue) 11:50 - 12:10 19th (Tue) 12:10 - 12:30	Tadayuki Matsumura, Kanako E Empathic Active Inference: Active Inference with Empathy Mechanism for Socially Behaved Artificial Agent David Herel, Dominika Zogatova Emergence of Novelty in Evolutionary Algorithms Lukas Bostelmann-Arp, Andrea Multi-Objective Evolutionary Game Theory: A case study in cancer therapy Martin Stefanec and Thomas Sc PPS3D: A 3D Variant of the Primordial Particle System Kasper Stoy Towards Computationally Efficient Evolutionary Robotics Mia-Katrin Kvalsund, Kyrre Glet Centralized and Decentralized Control in Modular Robots and The 12:00 - 12:20 Arend Hintze, Yasir Imam and L. Testing the Efficiency of a Genome-Wide Association Study on a C Innovation and informal knowledge ex Imran Khan and Christopher S: A Participatory Complex Systems Model Innovation and informal knowledge ex Imran Khan and Christopher S: A Participatory Complex Systems Model	11:30 - 13:00 OGD-CLEA (I)
19th (Tue) 10:20 - 10:40 19th (Tue) 10:40 - 11:00 19th (Tue) 11:00 - 11:15 19th (Tue) 11:15 - 11:30 19th (Tue) 11:30 - 11:50 19th (Tue) 11:50 - 12:10 19th (Tue) 12:30 - 12:30 19th (Tue) 12:30 - 12:45	Tadayuki Matsumura, Kanako E Empathic Active Inference: Active Inference with Empathy Mechanism for Socially Behaved Artificial Agent David Herel, Dominika Zogatova Emergence of Novelty in Evolutionary Algorithms Lukas Bostelmann-Arp, Andrea Multi-Objective Evolutionary Game Theory: A case study in cancer therapy Martin Stefanec and Thomas Sc PPS3D: A 3D Variant of the Primordial Particle System Kasper Stoy Towards Computationally Efficient Evolutionary Robotics Mia-Katrin Kvalsund, Kyrre Glet Centralized and Decentralized Control in Modular Robots and The Hintze, Yasir Imam and L Testing the Efficiency of a Genome-Wide Association Study on a C 12:20 - 12:40 The Anh Han, Francisco C. Santi Voluntary safety pledges overcome over-regulation dilemma in Al 12:40 - 13:00 Peter Eggenberger Hotz, Federi Simulations of Vesicular Distanglement	11:30 - 13:00 OGD-CLEA (I)
19th (Tue) 10:20 - 10:40 19th (Tue) 10:40 - 11:00 19th (Tue) 11:00 - 11:15 19th (Tue) 11:15 - 11:30 19th (Tue) 11:30 - 11:50 19th (Tue) 11:50 - 12:10 19th (Tue) 12:10 - 12:30 19th (Tue) 12:30 - 12:45 19th (Tue) 12:45 - 13:00	Tadayuki Matsumura, Kanako E Empathic Active Inference: Active Inference with Empathy Mechanism for Socially Behaved Artificial Agent David Herel, Dominika Zogatova Emergence of Novelty in Evolutionary Algorithms Lukas Bostelmann-Arp, Andrea Multi-Objective Evolutionary Game Theory: A case study in cancer therapy Martin Stefanec and Thomas Sc PPSSD: A 3D Variant of the Primordial Particle System Kasper Stoy Towards Computationally Efficient Evolutionary Robotics Mia-Katrin Kvalsund, Kyrre Glet Centralized and Decentralized Control in Modular Robots and The 12:00 - 12:20 Arend Hintze, Yasir Imam and L Testing the Efficiency of a Genome-Wide Association Study on a C The Anh Han, Francisco C. Santa Voluntary safety pledges overcome over-regulation dilemma in Al 12:40 - 13:00 Alan Dorin, Alexandra Penn an AgTech that doesn't cost the Earth: Creating the Control of the Cost of	11:30 - 13:00 OGD-CLEA (I)
19th (Tue) 10:20 - 10:40 19th (Tue) 10:40 - 11:00 19th (Tue) 11:00 - 11:15 19th (Tue) 11:15 - 11:30 19th (Tue) 11:30 - 11:50 19th (Tue) 11:50 - 12:10 19th (Tue) 12:10 - 12:30 19th (Tue) 12:30 - 12:45 19th (Tue) 12:45 - 13:00 19th (Tue) 12:45 - 13:00 19th (Tue) LUNCH	Tadayuki Matsumura, Kanako E Empathic Active Inference: Active Inference with Empathy Mechanism for Socially Behaved Artificial Agent David Herel, Dominika Zogatova Emergence of Novelty in Evolutionary Algorithms Lukas Bostelmann-Arp, Andrea Multi-Objective Evolutionary Game Theory: A case study in cancer therapy Martin Stefanec and Thomas Sc PPS3D: A 3D Variant of the Primordial Particle System Kasper Stoy Towards Computationally Efficient Evolutionary Robotics Mia-Katrin Kvalsund, Kyrre Glet Centralized and Decentralized Control in Modular Robots and The Hintze, Yasir Imam and L Testing the Efficiency of a Genome-Wide Association Study on a C 12:20 - 12:40 The Anh Han, Francisco C. Santi Voluntary safety pledges overcome over-regulation dilemma in Al 12:40 - 13:00 Peter Eggenberger Hotz, Federi Simulations of Vesicular Distanglement	11:30 - 13:00 OGD-CLEA (I) 14:00 - 15:30 OGD-CLEA (II)
19th (Tue) 10:20 - 10:40 19th (Tue) 10:40 - 11:00 19th (Tue) 11:00 - 11:15 19th (Tue) 11:15 - 11:30 19th (Tue) 11:50 - 12:10 19th (Tue) 11:50 - 12:10 19th (Tue) 12:10 - 12:30 19th (Tue) 12:30 - 12:45 19th (Tue) 12:45 - 13:00 19th (Tue) 12:45 - 13:00 19th (Tue) 14:00 - 14:20	Tadayuki Matsumura, Kanako E Empathic Active Inference: Active Inference with Empathy Mechanism for Socially Behaved Artificial Agent David Herel, Dominika Zogatova Emergence of Novelty in Evolutionary Algorithms Lukas Bostelmann-Arp, Andrea Multi-Objective Evolutionary Game Theory: A case study in cancer therapy Martin Stefanec and Thomas Sc PPS3D: A 3D Variant of the Primordial Particle System Kasper Stoy Towards Computationally Efficient Evolutionary Robotics Mia-Katrin Kvalsund, Kyrre Glet Centralized and Decentralized Control in Modular Robots and The Arend Hintze, Yasir Imam and L. Testing the Efficiency of a Genome-Wide Association Study on a C The Anh Han, Francisco C. Santx Voluntary safety pledges overcome over-regulation dilemma in All Peter Eggenberger Hotz, Federi Simulations of Vesicular Distanglement Jacob Schoemaker and Karine N The benefits of credit assignment in noisy video game environments Thomas Willkens and Jordan Po Evolving Unbounded Neural Complexity in Pursuit-Evasion Games Federico Pigozzi Shape Change and Control of Pressure-based Soft Agents	11:30 - 13:00 OGD-CLEA (I) 14:00 - 15:30 OGD-CLEA (II)
19th (Tue) 10:20 - 10:40 19th (Tue) 10:40 - 11:00 19th (Tue) 11:00 - 11:15 19th (Tue) 11:15 - 11:30 19th (Tue) 11:30 - 11:50 19th (Tue) 11:30 - 12:10 19th (Tue) 12:30 - 12:45 19th (Tue) 12:30 - 12:45 19th (Tue) 12:45 - 13:00 19th (Tue) UNCH 19th (Tue) 14:00 - 14:20 19th (Tue) 14:20 - 14:40 19th (Tue) 14:00 - 15:00 19th (Tue) 14:00 - 15:00 19th (Tue) 15:00 - 15:15	Tadayuki Matsumura, Kanako E Empathic Active Inference: Active Inference with Empathy Mechanism for Socially Behaved Artificial Agent David Herel, Dominika Zogatova Emergence of Novelty in Evolutionary Algorithms Lukas Bostelmann-Arp, Andrea Multi-Objective Evolutionary Game Theory: A case study in cancer therapy Martin Stefanec and Thomas Sc PPS3D: A 3D Variant of the Primordial Particle System Kasper Stoy Towards Computationally Efficient Evolutionary Robotics Mia-Katrin Kvalsund, Kyrre Glet Centralized and Decentralized Control in Modular Robots and The 12:00 - 12:20 Arend Hintze, Yasir Imam and L Testing the Efficiency of a Genome-Wide Association Study on a C 12:20 - 12:40 The Anh Han, Francisco C. Santa Voluntary safety pledges overcome over-regulation dilemma in Al 12:40 - 13:00 Peter Eggenberger Hotz, Federi Simulations of Vesicular Distanglement Jacob Schoemaker and Karine N The benefits of credit assignment in noisy video game environments Thomas Willkens and Jordan Po Evolving Unbounded Neural Complexity in Pursuit-Evasion Games Federico Pigozzi Shape Change and Control of Pressure-based Soft Agents Marcus Krellner and The Anh H: The Last One Standing? Recent Findings on the Feasibility of Indirect Reciprocity u	11:30 - 13:00 OGD-CLEA (I) 14:00 - 15:30 OGD-CLEA (II)
19th (Tue) 10:20 - 10:40 19th (Tue) 10:40 - 11:00 19th (Tue) 11:00 - 11:15 19th (Tue) 11:15 - 11:30 19th (Tue) 11:30 - 11:50 19th (Tue) 11:50 - 12:10 19th (Tue) 12:10 - 12:30 19th (Tue) 12:30 - 12:45 19th (Tue) 12:45 - 13:00 19th (Tue) 14:00 - 14:20 19th (Tue) 14:00 - 14:20 19th (Tue) 14:20 - 14:40 19th (Tue) 14:40 - 15:00	Tadayuki Matsumura, Kanako E Empathic Active Inference: Active Inference with Empathy Mechanism for Socially Behaved Artificial Agent David Herel, Dominika Zogatova Emergence of Novelty in Evolutionary Algorithms Lukas Bostelmann-Arp, Andrea Multi-Objective Evolutionary Game Theory: A case study in cancer therapy Martin Stefanec and Thomas Sc PPS3D: A 3D Variant of the Primordial Particle System Kasper Stoy Towards Computationally Efficient Evolutionary Robotics Mia-Katrin Kvalsund, Kyrre Glet Centralized and Decentralized Control in Modular Robots and The Anh Han, Francisco C. Santa Voluntary safety pledges overcome over-regulation dilemma in Al Peter Eggenberger Hotz, Federi Simulations of Vesicular Distanglement Jacob Schoemaker and Karine N The benefits of credit assignment in noisy video game environments Thomas Willkens and Jordan Po Evolving Unbounded Neural Complexity in Pursuit-Evasion Games Federico Pigozzi Shape Change and Control of Pressure-based Soft Agents Marcus Krellner and The Anh H. The Last One Standing? Recent Findings on the Feasibility of Indirect Reciprocity u Wiktoria Rajewicz, Thomas Schi Lifeforms potentially useful for automated underwater monitoring systems	11:30 - 13:00 OGD-CLEA (I) 14:00 - 15:30 OGD-CLEA (II)
19th (Tue) 10:20 - 10:40 19th (Tue) 10:40 - 11:00 19th (Tue) 11:00 - 11:15 19th (Tue) 11:15 - 11:30 19th (Tue) 11:30 - 11:50 19th (Tue) 11:30 - 12:10 19th (Tue) 12:30 - 12:45 19th (Tue) 12:30 - 12:45 19th (Tue) 12:45 - 13:00 19th (Tue) 14:00 - 14:20 19th (Tue) 14:00 - 14:40 19th (Tue) 14:00 - 14:00 19th (Tue) 14:00 - 15:00 19th (Tue) 14:00 - 15:00 19th (Tue) 15:00 - 15:15	Tadayuki Matsumura, Kanako E Empathic Active Inference: Active Inference with Empathy Mechanism for Socially Behaved Artificial Agent David Herel, Dominika Zogatova Emergence of Novelty in Evolutionary Algorithms Lukas Bostelmann-Arp, Andrea Multi-Objective Evolutionary Game Theory: A case study in cancer therapy Martin Stefanec and Thomas Sc PPS3D: A 3D Variant of the Primordial Particle System Kasper Stoy Towards Computationally Efficient Evolutionary Robotics Mia-Katrin Kvalsund, Kyrre Glet Centralized and Decentralized Control in Modular Robots and The 12:00 - 12:20 Arend Hintze, Yasir Imam and L Testing the Efficiency of a Genome-Wide Association Study on a C 12:20 - 12:40 The Anh Han, Francisco C. Santa Voluntary safety pledges overcome over-regulation dilemma in Al 12:40 - 13:00 Peter Eggenberger Hotz, Federi Simulations of Vesicular Distanglement Jacob Schoemaker and Karine N The benefits of credit assignment in noisy video game environments Thomas Willkens and Jordan Po Evolving Unbounded Neural Complexity in Pursuit-Evasion Games Federico Pigozzi Shape Change and Control of Pressure-based Soft Agents Marcus Krellner and The Anh H: The Last One Standing? Recent Findings on the Feasibility of Indirect Reciprocity u	11:30 - 13:00 OGD-CLEA (I) 14:00 - 15:30 OGD-CLEA (II)
19th (Tue) 10:20 - 10:40 19th (Tue) 10:40 - 11:00 19th (Tue) 11:00 - 11:15 19th (Tue) 11:15 - 11:30 19th (Tue) 11:30 - 11:50 19th (Tue) 11:50 - 12:10 19th (Tue) 12:30 - 12:45 19th (Tue) 12:30 - 12:45 19th (Tue) 12:45 - 13:00 19th (Tue) 14:00 - 14:20 19th (Tue) 14:20 - 14:40 19th (Tue) 14:20 - 14:40 19th (Tue) 14:00 - 15:00 19th (Tue) 15:00 - 15:15 19th (Tue) 15:15 - 15:30	Tadayuki Matsumura, Kanako E Empathic Active Inference: Active Inference with Empathy Mechanism for Socially Behaved Artificial Agent David Herel, Dominika Zogatova Emergence of Novelty in Evolutionary Algorithms Lukas Bostelmann-Arp, Andrea Multi-Objective Evolutionary Game Theory: A case study in cancer therapy Martin Stefanec and Thomas Sc PPS3D: A 3D Variant of the Primordial Particle System Kasper Stoy Towards Computationally Efficient Evolutionary Robotics Mia-Katrin Kvalsund, Kyrre Glet Centralized and Decentralized Control in Modular Robots and The Anh Han, Francisco C. Santa Voluntary safety pledges overcome over-regulation dilemma in Al Peter Eggenberger Hotz, Federi Simulations of Vesicular Distanglement Jacob Schoemaker and Karine N The benefits of credit assignment in noisy video game environments Thomas Willkens and Jordan Po Evolving Unbounded Neural Complexity in Pursuit-Evasion Games Federico Pigozzi Shape Change and Control of Pressure-based Soft Agents Marcus Krellner and The Anh H. The Last One Standing? Recent Findings on the Feasibility of Indirect Reciprocity u Wiktoria Rajewicz, Thomas Schi Lifeforms potentially useful for automated underwater monitoring systems	11:30 - 13:00 OGD-CLEA (I) 14:00 - 15:30 OGD-CLEA (II)
19th (Tue) 10:20 - 10:40 19th (Tue) 10:40 - 11:00 19th (Tue) 11:00 - 11:15 19th (Tue) 11:30 - 11:15 19th (Tue) 11:30 - 11:50 19th (Tue) 11:50 - 12:10 19th (Tue) 11:50 - 12:30 19th (Tue) 12:30 - 12:45 19th (Tue) 12:30 - 12:45 19th (Tue) 12:45 - 13:00 19th (Tue) 14:00 - 14:20 19th (Tue) 14:20 - 14:40 19th (Tue) 14:40 - 15:00 19th (Tue) 14:40 - 15:00 19th (Tue) 15:00 - 15:15 19th (Tue) 15:15 - 15:30 19th (Tue) 15:30 - 15:50	Tadayuki Matsumura, Kanako E Empathic Active Inference: Active Inference with Empathy Mechanism for Socially Behaved Artificial Agent David Herel, Dominika Zogatova Emergence of Novelty in Evolutionary Algorithms Lukas Bostelmann-Arp, Andrea Multi-Objective Evolutionary Game Theory: A case study in cancer therapy Martin Stefanec and Thomas Sc PS3D: A 3D Variant of the Primordial Particle System Kasper Stoy Towards Computationally Efficient Evolutionary Robotics Mia-Katrin Kvalsund, Kyrre Glet Centralized and Decentralized Control in Modular Robots and The Arend Hintze, Yasir Imam and L. Testing the Efficiency of a Genome-Wide Association Study on a C The Anh Han, Francisco C. Sant: Voluntary safety pledges overcome over-regulation dilemma in Al Peter Eggenberger Hotz, Federi Simulations of Vesicular Distanglement Jacob Schoemaker and Karine N The benefits of credit assignment in noisy video game environments Thomas Willkens and Jordan Po Evolving Unbounded Neural Complexity in Pursuit-Evasion Games Federico Pigozzi Shape Change and Control of Pressure-based Soft Agents Marcus Krellner and The Anh H: The Last One Standing? Recent Findings on the Feasibility of Indirect Reciprocity u Wiktoria Rajewicz, Thomas Schi. Lifeforms potentially useful for automated underwater monitoring systems Dieu My Nguyen, Michael Iuzzo Physical Obstacles Constrain Behavioral Parameter Space of Successful Localization in Honey Bee Swarms Eduardo J. Izquierdo, Gabriel J.: Perpetual Crossers without Sensory Delay: Revisiting the Perceptual Crossing Simulation Studies Chantal Nguyen, Isabella Huang Firefly-inspired vocabulary generator for communication in multi-agent systems	11:30 - 13:00 OGD-CLEA (I) 14:00 - 15:30 OGD-CLEA (II)
19th (Tue) 10:20 - 10:40 19th (Tue) 10:40 - 11:00 19th (Tue) 11:00 - 11:15 19th (Tue) 11:15 - 11:30 19th (Tue) 11:50 - 12:10 19th (Tue) 11:50 - 12:30 19th (Tue) 12:30 - 12:45 19th (Tue) 12:30 - 12:45 19th (Tue) 12:45 - 13:00 19th (Tue) 14:00 - 14:20 19th (Tue) 14:20 - 14:40 19th (Tue) 14:40 - 15:00 19th (Tue) 15:00 - 15:15 19th (Tue) 15:15 - 15:30 19th (Tue) 15:30 - 15:50 19th (Tue) 15:50 - 16:10	Tadayuki Matsumura, Kanako E Empathic Active Inference: Active Inference with Empathy Mechanism for Socially Behaved Artificial Agent David Herel, Dominika Zogatova Emergence of Novelty in Evolutionary Algorithms Lukas Bostelmann-Arp, Andrea Multi-Objective Evolutionary Game Theory: A case study in cancer therapy Martin Stefanec and Thomas Sc PPS3D: A 3D Variant of the Primordial Particle System Kasper Stoy Towards Computationally Efficient Evolutionary Robotics Mia-Katrin Kvalsund, Kyrre Glet Centralized and Decentralized Control in Modular Robots and The Hintze, Yasir Imam and L Testing the Efficiency of a Genome-Wide Association Study on a C 12:20 - 12:40 The Anh Han, Francisco C. Santc Voluntary safety pledges overcome over-regulation dilemma in All 12:40 - 13:00 Peter Eggenberger Hotz, Federi Simulations of Vesicular Distanglement Jacob Schoemaker and Karine N The benefits of credit assignment in noisy video game environments Thomas Willkens and Jordan Po Evolving Unbounded Neural Complexity in Pursuit-Evasion Games Federico Pigozzi Shape Change and Control of Pressure-based Soft Agents Marcus Krellner and The Anh Hi The Last One Standing? Recent Findings on the Feasibility of Indirect Reciprocity u Wiktoria Rajewicz, Thomas Schi Lifeforms potentially useful for automated underwater monitoring systems Dieu My Nguyen, Michael luzzo Physical Obstacles Constrain Behavioral Parameter Space of Successful Localization in Honey Bee Swarms Eduardo J. Izquierdo, Gabriel J.: Perpetual Crossers without Sensory Delay: Revisiting the Perceptual Crossing Simulation Studies	11:30 - 13:00 OGD-CLEA (I) 14:00 - 15:30 OGD-CLEA (II)
19th (Tue) 10:20 - 10:40 19th (Tue) 10:40 - 11:00 19th (Tue) 11:00 - 11:15 19th (Tue) 11:15 - 11:30 19th (Tue) 11:50 - 12:10 19th (Tue) 11:50 - 12:10 19th (Tue) 12:10 - 12:30 19th (Tue) 12:30 - 12:45 19th (Tue) 12:45 - 13:00 19th (Tue) 14:45 - 13:00 19th (Tue) 14:00 - 14:20 19th (Tue) 14:20 - 14:40 19th (Tue) 15:00 - 15:15 19th (Tue) 15:05 - 15:30 19th (Tue) 15:50 - 15:50 19th (Tue) 15:50 - 16:10 19th (Tue) 15:50 - 16:10 19th (Tue) 16:10 - 16:30	Tadayuki Matsumura, Kanako E Empathic Active Inference: Active Inference with Empathy Mechanism for Socially Behaved Artificial Agent David Herel, Dominika Zogatova Emergence of Novelty in Evolutionary Algorithms Lukas Bostelmann-Arp, Andrea Multi-Objective Evolutionary Game Theory: A case study in cancer therapy Martin Stefanec and Thomas Sc PS3D: A 3D Variant of the Primordial Particle System Kasper Stoy Towards Computationally Efficient Evolutionary Robotics Mia-Katrin Kvalsund, Kyrre Glet Centralized and Decentralized Control in Modular Robots and The Arend Hintze, Yasir Imam and L. Testing the Efficiency of a Genome-Wide Association Study on a C The Anh Han, Francisco C. Sant: Voluntary safety pledges overcome over-regulation dilemma in Al Peter Eggenberger Hotz, Federi Simulations of Vesicular Distanglement Jacob Schoemaker and Karine N The benefits of credit assignment in noisy video game environments Thomas Willkens and Jordan Po Evolving Unbounded Neural Complexity in Pursuit-Evasion Games Federico Pigozzi Shape Change and Control of Pressure-based Soft Agents Marcus Krellner and The Anh H: The Last One Standing? Recent Findings on the Feasibility of Indirect Reciprocity u Wiktoria Rajewicz, Thomas Schi. Lifeforms potentially useful for automated underwater monitoring systems Dieu My Nguyen, Michael Iuzzo Physical Obstacles Constrain Behavioral Parameter Space of Successful Localization in Honey Bee Swarms Eduardo J. Izquierdo, Gabriel J.: Perpetual Crossers without Sensory Delay: Revisiting the Perceptual Crossing Simulation Studies Chantal Nguyen, Isabella Huang Firefly-inspired vocabulary generator for communication in multi-agent systems	11:30 - 13:00 OGD-CLEA (I) 14:00 - 15:30 OGD-CLEA (II)

IZUITI (VVP(I)	09:00 - 10:00	Keynote: Job Boekhoven	
. ,		Alexander Morsdvintsev, Ettore Growing Isotropic Neural Cellular Automata	10:00 - 11:30 Simulating pandemics with ABM
	10:20 - 10:40	Christopher Bennett, Seth Bullo Exploiting Intrinsic Multi-Agent Heterogeneity for Spatial Interference Reduction i Hybrid Life V Invited talk: Robotic human movement	
	10:40 - 11:00	Arend Hintze and Jory Schossau Towards an FPGA Accelerator for Markov Brains Yanpei Huang and Jonathan augmentation: principles, challenges,	
	11:00 - 11:15	Timothy Atkinson and Nihat Eng Self Recognition as Optimisation Eden open questions and pilot studies	
	11:15 - 11:30	Shuto Kuriyama, Wataru Noguc Gradient Climbing Neural Cellular Automata	
1	11:30 - 11:50	Olaf Witkowski and Eric Schwitz Ethics of Artificial Life: The Moral Status of Life as It Could Be Margareta Segerståhl and Bori Modeling the Cell as a Network of Para	11:30 - 13:00 LIFELIKE 2022(I)
1 ' '	11:50 - 12:10	Ana Rubio Denniss, Laia Freixas Q-learning for real time control of heterogeneous microagent collective Fernando Rodríguez Inside looking out? Autonomy, phenon	,
	12:10 - 12:30	Andrea Ferigo, Lisa Soros, Eric N On the Entanglement between Evolvability and Fitness: an Experimental Study on Jonas Rockbach, Luka-Franzisk Towards Hierarchical Hybrid Architectu	
1	12:30 - 12:45	Marco Villani, Gianluca D'Addes Pseudo-attractors in Random Boolean Network Models and Single-Cell Data	
	12:45 - 13:00	Reiji Suzuki, Shinji Sumitani, Chi A Modeling and Experimental Framework for Understanding Evolutionary and Ecological Roles of Acoustic Behavior Using a Generative Model	
20th (Wed)	LUNCH		
	14:00 - 14:20	Stefano Furlan, Eric Medvet, Gir On the Mutual Influence of Human and Artificial Life: an Experimental Investigation	14:00 - 15:30 LIFELIKE 2022(II)
	14:20 - 14:40	Harry Booth and Peter J. Bentle The Evolution of Fractal Protein Modules in Multicellular Development	
	14:40 - 15:00	Johannes Josef Schneider, Aless Paths in a Network of Polydisperse Spherical Droplets	
	15:00 - 15:20	Lorenzo Cavuoti, Francesco Sac Adversarial Takeover of Neural Cellular Automata	
1	15:20 - 15:40	Kiara Johnson, Piper Welch, Em Endosymbiosis or Bust: Influence of Ectosymbiosis on Evolution of Obligate Endosymbiosis	15:30 - 17:00 Web Hackathon
	15:40 - 16:00	Alison Cameron, Seth Dorchen, Keep Your Frenemies Closer: Bacteriophage That Benefit Their Hosts Evolve to be More Temperate	15.50 17.60 WED HUCKULION
	16:00 - 16:20	Q. Tyrell Davis Glaberish: Generalizing the Continuously-Valued Lenia Framework to Arbitrary Life-Like Cellular Automata	
	16:20 - 16:40	Babak Hodjat, Hormoz Shahrzat DIAS: A Domain-Independent Alife-Based Problem-Solving System	
		Keynote: Susanne Still	
21st (Thu)	09:00 - 10:00	Keynote: Dora Tang	
21st (Thu)	10:00 - 11:30	Special Session Artificial Perception II (ArtPerc II)	10:00 - 11:30 ALife Ethics (I)
21st (Thu)	10:05 - 10:35	Alexander Mordvinstev Invited talk by Alexander Mordvinstev, creator of DeepDream and co-creator of Neural Cellular Automata	
21st (Thu)	10:35 - 10:55	Inman Harvey Navigating blind without a map: models of active wayfinding	
21st (Thu)	10:55 - 11:10	Pasquale Stano, Giordano Ram; Pier Luigi Gentili and Luisa Damiano, En route for implanting a minimal chemical perceptron into artificial cells	
21st (Thu)	11:10 - 11:25	Michael Vogrin, Guilherme Woc Modelling a Common Cognitive Bias and a Simple Heuristic to Overcome it	
21st (Thu)	11:30 - 12:00	[None]	11:30 - 13:00 ALife Ethics (II)
21st (Thu)	12:30 - 13:00	[None]	
21st (Thu)	LUNCH	November of Cities and	144.00 45.30 ADAM DISS (I)
21st (Thu)	14:00 - 14:20	Vincent Ragusa and Clifford Bot Augmenting Evolution with Bio-Inspired "Super Explorers"	14:00 - 15:30 ABMHuB'22 (I)
21st (Thu)	14:20 - 14:40 14:40 - 15:00	Jacob Ashworth, Lyra Lee, Jacks Evolution of Developmental Strategies in NK Fitness Landscapes	
21st (Thu)	14:40 - 15:00 15:00 - 15:20	Jonathan Bowen Two Theories of Responsiveness	
21st (Thu)		Anya Vostinar, Katherine Skoce Symbiosis in Digital Evolution: A Review and Future Directions	
21st (Thu)			45.20 47.00 ADMILL.DI32 (II)
	15:20 - 15:40	Eduardo J. Izquierdo and Madhi. What does functional connectivity tell us about the behaviorally functional connectivity of a multifunctional neural circuit?	15:30 - 17:00 ABMHuB'22 (II)
21st (Thu)	15:40 - 16:00	Katherine G. Skocelas, Austin J. The Evolution of Genetic Robustness for Cellular Cooperation in Early Multicellular Organisms	15:30 - 17:00 ABMHuB'22 (II)
21st (Thu)	15:40 - 16:00 16:00 - 16:20	Katherine G. Skocelas, Austin J. The Evolution of Genetic Robustness for Cellular Cooperation in Early Multicellular Organisms Mohiul Islam, Nawwaf Kharma String: a programming language for the evolution of ribozymes in a new computational protocell model	15:30 - 17:00 ABMHuB'22 (II)
21st (Thu) 21st (Thu)	15:40 - 16:00 16:00 - 16:20 16:20 - 16:40	Katherine G. Skocelas, Austin J. The Evolution of Genetic Robustness for Cellular Cooperation in Early Multicellular Organisms Mohiul Islam, Nawwaf Kharma String: a programming language for the evolution of ribozymes in a new computational protocell model Penelope Faulkner Rainford and Lineage Selection in Mixed Populations for Genetic Improvement	15:30 - 17:00 ABMHuB'22 (II)
21st (Thu) 21st (Thu) 21st (Thu)	15:40 - 16:00 16:00 - 16:20 16:20 - 16:40 17:00 - 18:00	Katherine G. Skocelas, Austin J. The Evolution of Genetic Robustness for Cellular Cooperation in Early Multicellular Organisms Mohiul Islam, Nawwaf Kharma String: a programming language for the evolution of ribozymes in a new computational protocell model Penelope Faulkner Rainford and Lineage Selection in Mixed Populations for Genetic Improvement Keynote: David O. Obura	· ·
21st (Thu) 21st (Thu) 21st (Thu) 21st (Thu)	15:40 - 16:00 16:00 - 16:20 16:20 - 16:40 17:00 - 18:00 18:00 - 18:30	Katherine G. Skocelas, Austin J. The Evolution of Genetic Robustness for Cellular Cooperation in Early Multicellular Organisms Mohiul Islam, Nawwaf Kharma String: a programming language for the evolution of ribozymes in a new computational protocell model Penelope Faulkner Rainford and Lineage Selection in Mixed Populations for Genetic Improvement Keynote: David O. Obura [None]	15:30 - 17:00 ABMHuB'22 (II) 18:00 - 19:30 Extracurricular ERA social event
21st (Thu) 21st (Thu) 21st (Thu) 21st (Thu) 21st (Thu) 21st (Thu)	15:40 - 16:00 16:00 - 16:20 16:20 - 16:40 17:00 - 18:00 18:00 - 18:30 18:30 - 19:00	Katherine G. Skocelas, Austin J. The Evolution of Genetic Robustness for Cellular Cooperation in Early Multicellular Organisms Mohiul Islam, Nawwaf Kharma String: a programming language for the evolution of ribozymes in a new computational protocell model Penelope Faulkner Rainford and Lineage Selection in Mixed Populations for Genetic Improvement Keynote: David O. Obura [None]	, ,
21st (Thu) 21st (Thu) 21st (Thu) 21st (Thu)	15:40 - 16:00 16:00 - 16:20 16:20 - 16:40 17:00 - 18:00 18:00 - 18:30	Katherine G. Skocelas, Austin J. The Evolution of Genetic Robustness for Cellular Cooperation in Early Multicellular Organisms Mohiul Islam, Nawwaf Kharma String: a programming language for the evolution of ribozymes in a new computational protocell model Penelope Faulkner Rainford and Lineage Selection in Mixed Populations for Genetic Improvement Keynote: David O. Obura [None]	, ,
21st (Thu) 21st (Thu) 21st (Thu) 21st (Thu) 21st (Thu) 21st (Thu)	15:40 - 16:00 16:00 - 16:20 16:20 - 16:40 17:00 - 18:00 18:00 - 18:30 18:30 - 19:00	Katherine G. Skocelas, Austin J. The Evolution of Genetic Robustness for Cellular Cooperation in Early Multicellular Organisms Mohiul Islam, Nawwaf Kharma String: a programming language for the evolution of ribozymes in a new computational protocell model Penelope Faulkner Rainford and Lineage Selection in Mixed Populations for Genetic Improvement Keynote: David O. Obura [None]	, ,
21st (Thu) 21st (Thu) 21st (Thu) 21st (Thu) 21st (Thu) 21st (Thu)	15:40 - 16:00 16:00 - 16:20 16:20 - 16:40 17:00 - 18:00 18:00 - 18:30 18:30 - 19:00 19:00 - 19:30	Katherine G. Skocelas, Austin J. The Evolution of Genetic Robustness for Cellular Cooperation in Early Multicellular Organisms Mohiul Islam, Nawwaf Kharma String: a programming language for the evolution of ribozymes in a new computational protocell model Penelope Faulkner Rainford and Lineage Selection in Mixed Populations for Genetic Improvement Keynote: David O. Obura [None] [None] [None]	, ,
21st (Thu) 21st (Thu) 21st (Thu) 21st (Thu) 21st (Thu) 21st (Thu) 22nd (Fri)	15:40 - 16:00 16:00 - 16:20 16:20 - 16:40 17:00 - 18:00 18:00 - 18:30 18:30 - 19:00 19:00 - 19:30	Katherine G. Skocelas, Austin J. The Evolution of Genetic Robustness for Cellular Cooperation in Early Multicellular Organisms Mohiul Islam, Nawwaf Kharma String: a programming language for the evolution of ribozymes in a new computational protocell model Penelope Faulkner Rainford and Lineage Selection in Mixed Populations for Genetic Improvement Keynote: David O. Obura [None] [None] [None] Keynote: Stuart Bartlett	18:00 - 19:30 Extracurricular ERA social event
21st (Thu) 21st (Thu) 21st (Thu) 21st (Thu) 21st (Thu) 21st (Thu) 22nd (Fri) 22nd (Fri)	15:40 - 16:00 16:00 - 16:20 16:20 - 16:40 17:00 - 18:00 18:00 - 18:30 18:30 - 19:00 19:00 - 19:30 09:00 - 10:00 10:01 - 10:20	Katherine G. Skocelas, Austin J. The Evolution of Genetic Robustness for Cellular Cooperation in Early Multicellular Organisms Mohiul Islam, Nawwaf Kharma String: a programming language for the evolution of ribozymes in a new computational protocell model Penelope Faulkner Rainford and Lineage Selection in Mixed Populations for Genetic Improvement Keynote: David O. Obura [None] [None] [None] Keynote: Stuart Bartlett Special Session Artificial Life Journal: Susan Stepney - opening remarks	18:00 - 19:30 Extracurricular ERA social event
21st (Thu) 22nd (Fri) 22nd (Fri) 22nd (Fri)	15:40 - 16:00 16:00 - 16:20 16:20 - 16:40 17:00 - 18:30 18:00 - 18:30 19:00 - 19:30 09:00 - 10:00 10:01 - 10:20 10:20 - 10:40	Katherine G. Skocelas, Austin J. The Evolution of Genetic Robustness for Cellular Cooperation in Early Multicellular Organisms Mohiul Islam, Nawwaf Kharma String: a programming language for the evolution of ribozymes in a new computational protocell model Penelope Faulkner Rainford and Lineage Selection in Mixed Populations for Genetic Improvement Keynote: David O. Obura [None] [None] [None] Keynote: Stuart Bartlett Special Session Artificial Life Journal: Susan Stepney - opening remarks Eric Peña, Hiroki Sayama "Life Worth Mentioning: Complexity in Life-Like Cellular Automata	18:00 - 19:30 Extracurricular ERA social event
21st (Thu) 21st (Thu) 21st (Thu) 21st (Thu) 21st (Thu) 21st (Thu) 22nd (Fri) 22nd (Fri) 22nd (Fri) 22nd (Fri)	15:40 - 16:00 16:00 - 16:20 16:20 - 16:40 17:00 - 18:00 18:00 - 18:30 19:00 - 19:30 09:00 - 10:00 10:01 - 10:20 10:20 - 10:40 10:45 - 11:05	Katherine G. Skocelas, Austin J. The Evolution of Genetic Robustness for Cellular Cooperation in Early Multicellular Organisms Mohiul Islam, Nawwaf Kharma String: a programming language for the evolution of ribozymes in a new computational protocell model Penelope Faulkner Rainford and Lineage Selection in Mixed Populations for Genetic Improvement Keynote: David O. Obura [None] [None] [None] Keynote: Stuart Bartlett Special Session Artificial Life Journal: Susan Stepney - opening remarks Eric Peña, Hiroki Sayama "Life Worth Mentioning: Complexity in Life-Like Cellular Automata Tran Nguyen Minh-Thai, Sandh, "A Comprehensive Conceptual and Computational Dynamics Framework for Autonomous Regeneration Systems"	18:00 - 19:30 Extracurricular ERA social event
21st (Thu) 22nd (Fri) 22nd (Fri) 22nd (Fri) 22nd (Fri) 22nd (Fri)	15:40 - 16:00 16:00 - 16:20 16:20 - 16:40 17:00 - 18:00 18:00 - 18:30 19:00 - 19:30 09:00 - 10:00 10:01 - 10:20 10:20 - 10:40 10:45 - 11:05 11:10 - 11:20	Katherine G. Skocelas, Austin J. The Evolution of Genetic Robustness for Cellular Cooperation in Early Multicellular Organisms Mohiul Islam, Nawwaf Kharma String: a programming language for the evolution of ribozymes in a new computational protocell model Penelope Faulkner Rainford and Lineage Selection in Mixed Populations for Genetic Improvement Keynote: David O. Obura [None] [None] [None] [None] Special Session Artificial Life Journal: Susan Stepney - opening remarks Eric Peña, Hiroki Sayama "Life Worth Mentioning: Complexity in Life-Like Cellular Automata Tran Nguyen Minh-Thai, Sandh, "A Comprehensive Conceptual and Computational Dynamics Framework for Autonomous Regeneration Systems" Abeba Birhane "The Impossibility of Automating Ambiguity"	18:00 - 19:30 Extracurricular ERA social event 10:00 - 11:30 SB-AI 7 (I)
21st (Thu) 22nd (Fri) 22nd (Fri) 22nd (Fri) 22nd (Fri) 22nd (Fri) 22nd (Fri)	15:40 - 16:00 16:00 - 16:20 16:20 - 16:40 17:00 - 18:00 18:00 - 18:30 18:30 - 19:00 19:00 - 10:00 10:01 - 10:20 10:20 - 10:40 10:45 - 11:05 11:10 - 11:20 11:35 - 11:55	Katherine G. Skocelas, Austin J. The Evolution of Genetic Robustness for Cellular Cooperation in Early Multicellular Organisms Mohiul Islam, Nawwaf Kharma String: a programming language for the evolution of ribozymes in a new computational protocell model Penelope Faulkner Rainford and Lineage Selection in Mixed Populations for Genetic Improvement Keynote: David O. Obura [None] [None] [None] [None] [None] Special Session Artificial Life Journal: Susan Stepney - opening remarks Eric Peña, Hiroki Sayama "Life Worth Mentioning: Complexity in Life-Like Cellular Automata Tran Nguyen Minh-Thai, Sandh, "A Comprehensive Conceptual and Computational Dynamics Framework for Autonomous Regeneration Systems" The Impossibility of Automating Ambiguity" Shane St. Luce, Hiroki Sayama "Network-Based Phase Space Analysis of the El Farol Bar Problem"	18:00 - 19:30 Extracurricular ERA social event 10:00 - 11:30 SB-AI 7 (I)
21st (Thu) 22nd (Fri)	15:40 - 16:00 16:00 - 16:20 16:20 - 16:40 17:00 - 18:00 18:00 - 18:30 18:30 - 19:00 19:00 - 19:30 09:00 - 10:00 10:01 - 10:20 10:20 - 10:40 10:45 - 11:05 11:10 - 11:20 11:35 - 11:55 11:55 - 12:30	Katherine G. Skocelas, Austin J. The Evolution of Genetic Robustness for Cellular Cooperation in Early Multicellular Organisms Mohiul Islam, Nawwaf Kharma String: a programming language for the evolution of ribozymes in a new computational protocell model Penelope Faulkner Rainford and Lineage Selection in Mixed Populations for Genetic Improvement Keynote: David O. Obura [None] [None] [None] Keynote: Stuart Bartlett Special Session Artificial Life Journal: Susan Stepney - opening remarks Eric Peña, Hiroki Sayama "Life Worth Mentioning: Complexity in Life-Like Cellular Automata Tran Nguyen Minh-Thai, Sandhy "A Comprehensive Conceptual and Computational Dynamics Framework for Autonomous Regeneration Systems" Abeba Birhane "The Impossibility of Automating Ambiguity" Shane St. Luce, Hiroki Sayama "Network-Based Phase Space Analysis of the El Farol Bar Problem" [None]	18:00 - 19:30 Extracurricular ERA social event 10:00 - 11:30 SB-AI 7 (I)
21st (Thu) 22nd (Fri)	15:40 - 16:00 16:00 - 16:20 16:20 - 16:40 17:00 - 18:00 18:00 - 18:30 19:00 - 19:30 09:00 - 10:00 10:01 - 10:20 10:20 - 10:40 10:45 - 11:05 11:35 - 11:55 11:55 - 12:30 12:40 - 13:00	Katherine G. Skocelas, Austin J. The Evolution of Genetic Robustness for Cellular Cooperation in Early Multicellular Organisms Mohiul Islam, Nawwaf Kharma String: a programming language for the evolution of ribozymes in a new computational protocell model Penelope Faulkner Rainford and Lineage Selection in Mixed Populations for Genetic Improvement Keynote: David O. Obura [None] [None] [None] Keynote: Stuart Bartlett Special Session Artificial Life Journal: Susan Stepney - opening remarks Eric Peña, Hiroki Sayama "Life Worth Mentioning: Complexity in Life-Like Cellular Automata Tran Nguyen Minh-Thai, Sandhy "A Comprehensive Conceptual and Computational Dynamics Framework for Autonomous Regeneration Systems" Abeba Birhane "The Impossibility of Automating Ambiguity" Shane St. Luce, Hiroki Sayama "Network-Based Phase Space Analysis of the El Farol Bar Problem" [None]	18:00 - 19:30 Extracurricular ERA social event 10:00 - 11:30 SB-AI 7 (I)
21st (Thu) 22nd (Fri)	15:40 - 16:00 16:00 - 16:20 16:20 - 16:40 17:00 - 18:00 18:00 - 18:30 19:00 - 19:30 09:00 - 10:00 10:01 - 10:20 10:20 - 10:40 10:45 - 11:05 11:35 - 11:55 11:55 - 12:30 LUNCH	Katherine G. Skocelas, Austin J. The Evolution of Genetic Robustness for Cellular Cooperation in Early Multicellular Organisms Mohiul Islam, Nawwaf Kharma String: a programming language for the evolution of ribozymes in a new computational protocell model Penelope Faulkner Rainford and Lineage Selection in Mixed Populations for Genetic Improvement Keynote: David O. Obura [None] [None] [None] Keynote: Stuart Bartlett Special Session Artificial Life Journal: Susan Stepney - opening remarks Eric Peña, Hiroki Sayama "Life Worth Mentioning: Complexity in Life-Like Cellular Automata Tran Nguyen Minh-Thai, Sandh, "A Comprehensive Conceptual and Computational Dynamics Framework for Autonomous Regeneration Systems" Abeba Birhane "The Impossibility of Automating Ambiguity" Shane St. Luce, Hiroki Sayama "Network-Based Phase Space Analysis of the El Farol Bar Problem" [None] [None]	18:00 - 19:30 Extracurricular ERA social event 10:00 - 11:30 SB-AI 7 (I) 11:30 - 13:00 SB-AI 7 (II)
21st (Thu) 22nd (Fri)	15:40 - 16:00 16:00 - 16:20 16:20 - 16:40 17:00 - 18:30 18:00 - 18:30 19:00 - 19:30 09:00 - 10:00 10:01 - 10:20 10:20 - 10:40 10:45 - 11:05 11:10 - 11:20 11:35 - 11:55 11:55 - 12:30 12:40 - 13:00 LUNCH 14:00 - 14:20	Katherine G. Skocelas, Austin J. The Evolution of Genetic Robustness for Cellular Cooperation in Early Multicellular Organisms Mohiul Islam, Nawwaf Kharma String: a programming language for the evolution of ribozymes in a new computational protocell model Penelope Faulkner Rainford and Lineage Selection in Mixed Populations for Genetic Improvement Keynote: David O. Obura [None] [None] [None] [None] Keynote: Stuart Bartlett Special Session Artificial Life Journal: Susan Stepney - opening remarks Eric Peña, Hiroki Sayama "Life Worth Mentioning: Complexity in Life-Like Cellular Automata Tran Nguyen Minh-Thai, Sandhy "A Comprehensive Conceptual and Computational Dynamics Framework for Autonomous Regeneration Systems" Abeba Birhane "The Impossibility of Automating Ambiguity" Shane St. Luce, Hiroki Sayama "Network-Based Phase Space Analysis of the El Farol Bar Problem" [None] [None] Kira Breithaupt and Abe Leite Analogical comparison of circuits generating a multiply realizable walking behavior	18:00 - 19:30 Extracurricular ERA social event 10:00 - 11:30 SB-AI 7 (I) 11:30 - 13:00 SB-AI 7 (II)
21st (Thu) 22nd (Fri)	15:40 - 16:00 16:00 - 16:20 16:20 - 16:40 17:00 - 18:00 18:00 - 18:30 19:00 - 19:30 09:00 - 10:00 10:01 - 10:20 10:20 - 10:40 10:45 - 11:05 11:10 - 11:20 11:35 - 12:30 12:40 - 13:00 UNCH 14:00 - 14:20 14:20 - 14:40	Katherine G. Skocelas, Austin J. The Evolution of Genetic Robustness for Cellular Cooperation in Early Multicellular Organisms Mohiul Islam, Nawwaf Kharma String: a programming language for the evolution of ribozymes in a new computational protocell model Penelope Faulkner Rainford ant Lineage Selection in Mixed Populations for Genetic Improvement Keynote: David O. Obura [None] [None] [None] [None] Keynote: Stuart Bartlett Special Session Artificial Life Journal: Susan Stepney - opening remarks Eric Peña, Hiroki Sayama "Life Worth Mentioning: Complexity in Life-Like Cellular Automata Tran Nguyen Minh-Thai, Sandhn, "A Comprehensive Conceptual and Computational Dynamics Framework for Autonomous Regeneration Systems" Abeba Birhane "The Impossibility of Automating Ambiguity" Shane St. Luce, Hiroki Sayama "Network-Based Phase Space Analysis of the El Farol Bar Problem" [None] [None] Kira Breithaupt and Abe Leite Analogical comparison of circuits generating a multiply realizable walking behavior Theodor Cimpeanu, Francisco C Network Diversity Promotes Safety Adoption in Swift Artificial Intelligence Development	18:00 - 19:30 Extracurricular ERA social event 10:00 - 11:30 SB-AI 7 (I) 11:30 - 13:00 SB-AI 7 (II)
21st (Thu) 22nd (Fri)	15:40 - 16:00 16:00 - 16:20 16:20 - 16:40 17:00 - 18:00 18:00 - 18:30 19:00 - 19:30 09:00 - 10:00 10:01 - 10:20 10:20 - 10:40 10:45 - 11:05 11:10 - 11:20 11:35 - 12:30 12:40 - 13:00 LUNCH 14:00 - 14:20 14:20 - 14:40 14:40 - 15:00	Katherine G. Skocelas, Austin J. The Evolution of Genetic Robustness for Cellular Cooperation in Early Multicellular Organisms Mohiul Islam, Nawwaf Kharma String: a programming language for the evolution of ribozymes in a new computational protocell model Penelope Faulkner Rainford and Lineage Selection in Mixed Populations for Genetic Improvement Keynote: David O. Obura [None] [None] [None] [None] Keynote: Stuart Bartlett Special Session Artificial Life Journal: Susan Stepney - opening remarks Eric Peña, Hiroki Sayama "Life Worth Mentioning: Complexity in Life-Like Cellular Automata Tran Nguyen Minh-Thai, Sandh, "A Comprehensive Conceptual and Computational Dynamics Framework for Autonomous Regeneration Systems" Abeba Birhane "The Impossibility of Automating Ambiguity" Shane St. Luce, Hiroki Sayama "Network-Based Phase Space Analysis of the El Farol Bar Problem" [None] [None] [None] [None] Kira Breithaupt and Abe Leite Analogical comparison of circuits generating a multiply realizable walking behavior Theodor Cimpeanu, Francisco C Network Diversity Promotes Safety Adoption in Swift Artificial Intelligence Development Q. Tyrell Davis Step Size is a Consequential Parameter in Continuous Cellular Automata	18:00 - 19:30 Extracurricular ERA social event 10:00 - 11:30 SB-AI 7 (I) 11:30 - 13:00 SB-AI 7 (II)
21st (Thu) 22nd (Fri)	15:40 - 16:00 16:00 - 16:20 16:20 - 16:40 17:00 - 18:00 18:00 - 18:30 18:30 - 19:00 19:00 - 19:30 09:00 - 10:00 10:01 - 10:20 10:45 - 11:05 11:10 - 11:20 11:35 - 12:30 12:40 - 13:00 LUNCH 14:00 - 14:20 14:40 - 15:00 15:00 - 15:20	Katherine G. Skocelas, Austin J. The Evolution of Genetic Robustness for Cellular Cooperation in Early Multicellular Organisms Mohiul Islam, Nawwaf Kharma String: a programming language for the evolution of ribozymes in a new computational protocell model Penelope Faulkner Rainford and Lineage Selection in Mixed Populations for Genetic Improvement Keynote: Dobura [None] [None] [None] [None] [None] Special Session Artificial Life Journal: Susan Stepney - opening remarks Eric Peña, Hiroki Sayama "Life Worth Mentioning: Complexity in Life-Like Cellular Automata Tran Nguyen Minh-Thai, Sandhy "A Comprehensive Conceptual and Computational Dynamics Framework for Autonomous Regeneration Systems" Abeba Birhane "The Impossibility of Automating Ambiguity" Shane St. Luce, Hiroki Sayama "Network-Based Phase Space Analysis of the El Farol Bar Problem" [None] [None] [None] [Kira Breithaupt and Abe Leite Analogical comparison of circuits generating a multiply realizable walking behavior Theodor Cimpeanu, Francisco C Network Diversity Promotes Safety Adoption in Swift Artificial Intelligence Development Q. Tyrell Davis Step Size is a Consequential Parameter in Continuous Cellular Automata Emily Dolson, Anya Vostinar, Sh Evolutionary stability of host-endosymbiont mutualism is reduced by multi-infection	18:00 - 19:30 Extracurricular ERA social event 10:00 - 11:30 SB-AI 7 (I) 11:30 - 13:00 SB-AI 7 (II)