
Electronic Forums and Other EC-Related Activities

The EC community maintains a number of electronic mailing lists that provide timely interactions, exchange of information, and sharing of software. Participants submit articles on research issues, recent results, notices on new technical reports, workshop announcements, and calls for papers. A brief description of the more active ones follows.

Comp.AI.Genetic is a newsgroup intended for anyone interested in the general area of evolutionary computation. See your local systems administrator to obtain this news feed. A substantial FAQ sheet (frequently asked questions) on EC is maintained and is quite helpful.

EP-List is an electronic mailing focusing on Evolutionary Programming (EP) as defined by Fogel. To subscribe, send mail to EP-List-Request@magenta.me.fau.edu.

Genetic-Programming is an electronic mailing list focusing on genetic programming (GP) as defined by Koza. To subscribe, send mail to Genetic-Programming-Request@cs.stanford.edu.

GA-List is a moderated electronic digest for the interchange of information relating to genetic algorithms (GAs) as defined by Holland and general issues of evolutionary computation. Submissions are put into digest form and sent to subscribers approximately once a week. To subscribe, send mail to GA-List-Request@aic.nrl.navy.mil.

In addition to the moderated list, an ftp archive site is maintained with back issues of GA-List and other useful information, including source code for genetic algorithm and other evolutionary algorithm packages. The ftp site can be accessed using anonymous ftp to ftp.aic.nrl.navy.mil. Use a username of "anonymous" and use your own e-mail address as your password.

The GA-List digest also includes a calendar of recent and upcoming EC-related events. The

following listing of events is excerpted from a recent issue of GA-List. The volume/number designation refers to the GA-List issue where the full announcement can be found.

9 - 13 January, 1995

The First Nordic Workshop on Genetic Algorithms and Their Applications, University of Vaasa, Finland (v8n41).

The First Nordic (=Scandinavian+Finnish) Workshop on Genetic Algorithms and Their Applications will be held January 9-13, at the University of Vaasa. This meeting brings together an international community from academia and industry interested in algorithms suggested by the evolutionary process of natural selection. This program is a good opportunity to meet most Nordic GA researchers. The workshop will also contain a tutorial session and plenaries given by internationally distinguished GA researchers including Prof. David E. Goldberg.

Participation fee: nominal.

For more information:

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23 February, 1995

Evolutionary Algorithms in Management Applications, University of Goettingen, Germany (v8n45).

Most applications of Evolutionary Algorithms (EA) concern the technical sector or the natural sciences. However, during the last few years

interest has risen considerably to apply these promising techniques for solving all kinds of management problems in diverse areas such as

- production planning
- personnel scheduling
- trading strategies
- traffic management
- power station management
- planning in education
- distribution and vehicle routing
- financial services

The intention of the workshop is to bring together scientists and practitioners working on these kinds of applications and to promote the use of EA in management problems.

If you are interested in contributing to or participating in this workshop, or if you want more information on the North-German Interest Group on Softcomputing in Management, please contact:

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26 - 28 February, 1995

10th Annual ACM Symposium on Applied Computing, Opryland Hotel, Nashville, Tennessee (v8n20).

ACM/SAC'95 is the annual conference of the ACM Special Interest Group on Applied Computing (SIGAPP). For the past nine years, SACs have become a primary forum for applied computing practitioners and researchers. SAC will bring together applied computer scientists from related ACM Special Interest Groups (SIGs): SIGAPP, SIGAda, SIGBIO, SIGCUE, SIGFORTH, and SIGICE.

Applications using genetic algorithms, genetic

programming, and other optimization techniques are one of the major tracks in SAC'95. This particular track has had enormous success in past years, and we anticipate another set of excellent papers for this conference.

For more information:

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1 - 4 March, 1995

The Fourth Annual Conference on Evolutionary Programming (EP'95), San Diego, CA (v8n6).

The Fourth Annual Conference on Evolutionary Programming will serve as a forum for researchers investigating applications and theory of evolutionary programming and other related areas in evolutionary and natural computation.

For more information:

Dr. Robert G. Reynolds
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16 - 19 March, 1995

Third International Conference on Telecommunication Systems Modelling and Analysis, Nashville, TN (v8n21).

The Third International Conference on Telecommunication Systems Modelling and Analysis will be held in Nashville, Tennessee on March 16-19, 1995. With a few changes, the same basic format as the 1994 conference will be used. The general idea is to build on the success of earlier conferences by limiting the number of

participants, concentrate on a few topics, present new problems and problem areas, and encourage informal interaction and exchanges of ideas. The objective is to advance the state of the modelling and analysis in telecommunications by stimulating research activity on new and important problems.

For more information:

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3 - 4 April, 1995

1995 AISB Workshop on Evolutionary Computing, University of Sheffield, UK (v8n45).

The purpose of the workshop is to give researchers active in the area of evolutionary computing an opportunity to present their work and have discussions on current developments in a relatively informal atmosphere at a low cost. Papers will be refereed by the program committee and a program drawn up on the basis of those accepted. Some of the program committee and researchers visiting the UK will be invited to give talks for which they too will provide a paper. Papers will be bound and distributed to the participants at the beginning of the workshop and a post-workshop proceedings published if possible.

Timetable:

15 Nov., 1994: Call for participation
15 Jan., 1995: Last date for submission of extended abstracts or papers
15 Feb., 1995: Notification of accepted submissions
15 Mar., 1995: Camera ready papers due

For more information:

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18 - 21 April, 1995

International Conference on Artificial Neural Networks and Genetic Algorithms, Ecole des Mines d'Ales, France (v8n10).

The conference has two purposes, namely to bring together established workers in the fields of artificial neural networks and genetic algorithms, and to provide an opportunity for those wishing to gain understanding and experience of these areas. Thus, the conference will be preceded by a one-day workshop. At this workshop, introductory presentations covering the basic concepts and recent developments will be given, with lectures based on printed course notes.

For more information:

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26 April, 1995

FLAIRS-95 International Workshop on Intelligent Adaptive Systems (IAS-95), Melbourne Beach, Florida (v8n32).

Recently, there has been significant interest in developing intelligent systems or agents capable of dynamically building and adapting their knowledge-base with experience to accomplish a given task. Building such agents is of great practical interest in view of the increased demand for the development of knowledge-based systems (e.g., personal assistants, intelligent agents, information filters). However, very often the forms in which it is easy to represent the obtained knowledge-base differ from those that are dynamically adjustable for performing different tasks. Also, efficient methodologies for acquiring knowledge-bases must be flexible enough for dynamic adaptation. The goal of this workshop is to bring together

researchers working on the development of fundamental strategies and methodologies needed for the development of intelligent adaptive systems. The workshop seeks high-quality submissions in which there are links between the presented work, the workshop topic, and potential applications. Papers with real-world applications are very welcome.

Schedule:

1 Dec. 1994 Paper submissions due
 31 Jan. 1995 Acceptance notice
 1 Mar. 1995 Camera ready version
 26 Apr. 1995 Workshop

For more information:

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24 - 26 May, 1995

10th International Conference on Control Systems and Computer Science, Politehnica University of Bucharest, Bucharest, Romania (v8n37).

Papers should be proposed in the form of an abstract not exceeding 500 words, written in English.

Selected papers will be presented at the conference and will be published in the conference preprints, which will be available at the conference.

Schedule:

1 Nov. 1994 title and abstract submission
 15 Dec. 1994 preliminary selection and information on acceptance
 1 Feb. 1995 submission of full text for accepted papers
 31 Mar. 1995 final program

For more information:

CSCS 10

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 e-mail : buiu@roipb.bitnet

4 - 6 June, 1995

Third European Conference on Artificial Life, Granada, Spain (v8n5).

This conference will be organized into Scientific Sessions, Demonstrations, Videos, and Commercial Exhibits. Scientific Sessions will consist of Lectures (invited), Oral Presentations, and Posters. Topics include Foundations and Epistemology, Evolution, Adaptive and Cognitive Systems, Artificial Worlds, Robotics and Emulation of Animal Behavior, Societies and Collective Behavior, and Applications and Common Tools.

For more information:

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12 July, 1995

Symposium on the Application of Artificial Intelligence Computing in Geophysics, Boulder, Colorado (v8n39).

Papers in the form of oral or poster presentation are sought on all aspects of Artificial Intelligence computing applications in Geophysical Sciences including but not limited to,

- Neural computing
- Fuzzy set theory (soft computing)
- Evolutionary computing (genetic algorithms)
- Automated reasoning techniques
- Knowledge-based systems

- Machine learning and knowledge acquisition
- Database mining and knowledge discovery

Some information of general nature about the IUGG XXI General Assembly may also be obtained by contacting the American Geophysical Union. (Tel: +1 202 462 6900, Fax: +1 202 328 0566, e-mail: iugg_xxiga@kosmos.agu.org).

For *this symposium* related matters, or for further assistance, please contact one of the conveners:

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15 - 20 July, 1995

The Sixth International Conference on Genetic Algorithms, University of Pittsburgh, Pittsburgh, Pennsylvania (v8n32).

The Sixth International Conference on Genetic Algorithms (ICGA-95), will be held on July 15–20, 1995 at the University of Pittsburgh. This meeting brings together an international community from academia, government, and industry interested in algorithms suggested by the evolutionary process of natural selection, such as genetic algorithms, evolution strategies, evolutionary programming, and genetic programming. Topics of particular interest include mathematical descriptions of evolutionary computation; function optimization, machine learning, and neural networks that include evolutionary computation

methods; and papers discussing how methods of evolutionary computation are related to biological and cognitive systems, including artificial life and classifier systems.

Papers describing significant, unpublished research in these areas are solicited. Authors must submit four (4) complete copies of their paper (hardcopy only), received by January 16, 1995, to the Program Chair:

Larry J. Eshelman

Philips Laboratories

345 Scarborough Road

Briarcliff Manor, NY 10510

Tel: (914) 945-6491

Important Dates:

16 Jan. 1995	Submissions must be received
5 Apr. 1995	Notification to authors mailed
5 May 1995	Revised, final camera-ready paper due
15–20 July 1995	Conference dates

29 August - 2 September, 1995

International Workshop on Parallel Applications in Statistics and Economics, Trier, Mainz, Germany (v8n39).

The purpose of this workshop is to bring together researchers interested in innovative information processing systems and their applications in the areas of statistics, finance, and economics. The focus will be on in-depth presentations of state-of-the-art methods and applications as well as on communicating current research topics. This workshop is intended for industrial and academic persons seeking new ways of comprehending the behavior of complex dynamic systems. The PASE'95 workshop is concerned with but not restricted to the following topics:

- Applications in finance, economics, and natural science
- Statistical tests for finding deterministic and chaotic behavior
- Statistical tests for measuring stability and stationarity
- Sampling and retrieving techniques for high-frequency data

- Modeling and analysis of nonlinear multivariate time series
- Statistical use of neural networks, genetic algorithms, and fuzzy systems

Further information will be available from anonymous ftp "maggia.ethz.ch" (129.132.17.1) or World Wide Web
 "http://www.ips.id.ethz.ch/PASE/pase.html"

12 - 14 September, 1995

First IEE/IEEE International Conference on Genetic Algorithms in Engineering Systems: Innovations and Applications, The University of Sheffield, Sheffield, United Kingdom (v8n45).

Being the first of its kind devoted to Engineering Systems, the GALEZIA series of conferences aims to establish an international forum for the presentation of technical results and advances in GAs theory and applications and will consider contributions from both academia and industry. GALEZIA will emphasize the role of evolutionary computing and GAs, in particular, in engineering systems although the general scope on theory and applications will be retained.

Schedule:

31 March, 1995 Submission of 5 copies of paper(s)

End of May 1995 Notification of Authors

30 June, 1995 Final camera-ready copies (if applicable)

11 September, 1995 Workshop

12-14 September, 1995 Conference and Exhibition

For more information:

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23 September - 1 October, 1995

Practice and Future of Autonomous Agents, Monte Verita, Ticino, Switzerland (v8n19).

In Spring 1993 a NATO Advanced Study Institute was organized in Trento, Italy. At the time know-how in building autonomous agents and pertinent hardware were not widely available. This situation has changed significantly since. There are currently many groups involved in active research in the field working on autonomous agents theoretically and with actual robot hardware. In the Trento meeting the focus was on spreading expertise in actual robot building and programming. In the meantime the field has progressed significantly. In this process a number of important issues have emerged. Among others, the theory of dynamical systems, evolutionary approaches, and functional analysis will be discussed with respect to these issues. In addition to the state-of-the-art (the "practice"), the idea is to generate visions for the field (the "future"). Leading researchers representing the various theoretical orientations will present their results and lead respective working groups.

For more information:

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10 - 12 November, 1995

1995 AAAI Fall Symposium Series: Genetic Programming, Cambridge, Massachusetts (v8n43).

Genetic programming (GP) extends the genetic algorithm to the domain of computer programs. In genetic programming, populations of programs are genetically bred to solve problems. Genetic programming can solve problems of system identification, classification, control, robotics, optimization, game playing, and pattern recognition.

Starting with a primordial ooze of hundreds or thousands of randomly created programs composed of functions and terminals appropriate

to the problem, the population is progressively evolved over a series of generations by applying the operations of Darwinian fitness, proportionate reproduction and crossover (sexual recombination).

Submit your abstract or one-page description as plain text electronically by Friday April 14, 1995, with a hard-copy backup to:

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29 November - 1 December, 1995

**1995 IEEE International Conference on
Evolutionary Computing (ICEC '95), Perth,
Australia (v8n36).**

The IEEE International Conference on Evolutionary Computing will be concerned with the theory and applications of genetic and evolutionary algorithms and associated topics. It will be held concurrently with the last three days of ICNN'95. Submission of papers related to the topics listed below are invited.

Schedule:

31 Mar., 1995 Proposals for tutorials, exhibits, and plenaries
5 May, 1995 Submission of papers
7 July, 1995 Notification of acceptance
25 Aug., 1995 Submission of camera-ready papers

Papers should be sent to:

David B. Fogel
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All correspondence regarding the conference, other than the submission of papers, should be addressed to:

ICEC'95 Conference Management