IPDO-2007 Symposium’s main objectives were to bring the three communities of researchers (inverse problems experts, design theory experts, and optimization experts) together and provide a common forum for presenting different applications, problems, and solution strategy concepts. These three areas of research covered by the IPDO Symposium have a number of things in common. For example, many methodologies for solving inverse problems employ optimization algorithms. However, there are no optimization algorithms that employ methods of inverse design that could substantially reduce the number of time-consuming analysis required by the typical evolutionary optimization algorithms. Similarly, design theory is not well known in the optimization community where formulation of the appropriate multiple objectives and system-of-systems design formulations are often performed using intuition and personal experience. The IPDO-2007 Symposium thus offered a unique international forum that was expected to provide an excellent basis for cross-fertilization of ideas and creation of new synergistic approaches and methodologies that will combine the three fields of research so that more general, robust, accurate and computationally economical design methods are created for multi-disciplinary applications. Contributions dealing with practical applications were encouraged, such as in petrochemistry, aeronautics, bio-medicine, sensing of pollutants, materials processing, non-destructive evaluation, material property determination, etc.
(1) List of papers submitted or published under ARO sponsorship during this reporting period.
List the papers, including journal references, in the following categories:
(a) Manuscripts submitted, but not published

(b) Papers published in peer-reviewed journals

(c) Papers published in non-peer-reviewed journals or in conference proceedings


(d) Papers presented at meetings, but not published in conference proceedings

(2) Demographic Data for this Reporting Period:
(a) Number of Manuscripts submitted during this reporting period
5
(b) Number of Peer Reviewed Papers submitted during this reporting period
5
(c) Number of Non-Peer Reviewed Papers submitted during this reporting period
0
(d) Number of Presented but not Published Papers submitted during this reporting period
0

(3) Demographic Data for the life of this agreement:
(a) Number of Scientists Supported by this agreement (decimals are allowed)
5
(b) Number of Inventions resulting from this agreement
0
(c) Number of PhD(s) awarded as a result of this agreement
0
(d) Number of Bachelor Degrees awarded as a result of this agreement
0
(e) Number of Patents Submitted as a result of this agreement
0

(f) Number of Patents Awarded as a result of this agreement
0

(g) Number of Grad Students supported by this agreement
0

(h) Number of FTE Grad Students supported by this agreement
0

(i) Number of Post Doctorates supported by this agreement
0

(j) Number of FTE Post Doctorates supported by this agreement
0

(k) Number of Faculty supported by this agreement
0

(l) Number of Other Staff supported by this agreement
0

(m) Number of Undergrads supported by this agreement
0

(n) Number of Master Degrees awarded as a result of this agreement
0

(4) "Report of inventions" (by title only)
0

(5) "Scientific progress and accomplishments" (Description should include significant theoretical or experimental advances) Starts on the next page!

Due to the reporting needs of the Department of Defense, ARO is changing the reporting requirements for your education, equipment or research agreement to require the following:

(a) Number of undergraduates funded by your agreement during this reporting period.
0

(b) Number of undergraduates funded by your agreement who graduated during this period.
0

(c) Number of undergraduates funded by your agreement who graduated during this period with a degree in a science, mathematics, engineering, or technology field.
0

(d) Number of undergraduates funded by your agreement who graduated during this period and will continue to pursue a graduate or Ph.D degree in a science, mathematics, engineering, or technology field.
0

(e) Number of undergraduates funded by your agreement who graduated during this period and intend to work for the Department of Defense.
0

(f) Number of undergraduates graduating during this period who achieved at least a 3.5 GPA based on a scale with a maximum of a 4.0 GPA. (Convert GPAs on any other scale to be an equivalent value to a 4.0 scale.)
0

(g) Number of undergraduates working on your agreement who graduated during this period and were funded by a DoD Center of Excellence for Education, Research, or Engineering.
0

(h) Number of undergraduates funded by your agreement who graduated during this period and will receive a scholarship or fellowship for further studies in a science, mathematics, engineering or technology field.
0
IPDO-2007 - INVERSE PROBLEMS, DESIGN AND OPTIMIZATION SYMPOSIUM

Professor George S. Dulikravich, Ph.D., FAAM, FASME
Chairperson, Department of Mechanical and Materials Engineering
Director, Multidisciplinary Analysis, Inverse Design, Robust Optimization & Control (MAIDROC) Lab.
Florida International University
College of Engineering and Computing, Room EC 3474
10555 West Flagler Street, Miami, Florida 33174
(305) 348-7016 (office phone)
(954) 554-0368 (cell)
(305) 348-6007 (FAX)
dulikrav@fiu.edu (E-mail)
http://www.eng.fiu.edu/mme/
http://maidroc.fiu.edu
http://www.tandf.co.uk/journals/titles/17415977.asp
http://www.ipdos.org/ipdo2007

1. Foreword
Inverse problems, design theories and multi-objective constrained optimization strategies are three areas of advanced research that are rapidly becoming of common use by practicing engineers and designers. Consequently, there is an upsurge in the number of separate scientific meetings in each of these three general areas. The main objective of the IPDO-2007 - INVERSE PROBLEMS, DESIGN AND OPTIMIZATION SYMPOSIUM held April 16-18, 2007 in Miami Beach, Florida was to bring together the three communities of researchers (inverse problems, design theory and evolutionary optimization experts) and provide a common forum for presenting different applications, problems and solution concepts. IPDO Symposium is a sequence of international technical meetings that was preceded by the following meetings:
ICIDES-I organized by G.S. Dulikravich (University of Texas at Austin, 1984)
ICIDES-II organized by G.S. Dulikravich (Pennsylvania State University, 1987)
ICIDES-III organized by G.S. Dulikravich (Washington, DC, 1991)
The IPDO-2007 Symposium is the second in the IPDO sequence. The first IPDO Symposium was IPDO-2004 organized by G.S. Dulikravich, H.R.B. Orlande and M.J. Colaco and held in Rio de Janeiro in March of 2004.

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3. List of Illustrations, Tables and Appendices

Fig. 1 A view from a balcony of Newport Beachside Resort Hotel, Miami Beach, Florida
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Fig. 3 FIU ASME Student Chapter staff
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Table 6. IPDO-2007 AUTHORS AND PAPERS BY COUNTRY
Table 7. IPDO-2007 AUTHORS THAT PRESENTED THE PAPERS
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Appendix II. List of people that were shipped two volumes of proceedings of IPDO-2007 Symposium
Appendix III. Photos from the IPDO-2007 Symposium

4. Statement of the Problem Studied

IPDO Symposium's main objectives were to bring the three communities of researchers (inverse problems experts, design theory experts, and optimization experts) together and provide a common forum for presenting different applications, problems, and solution strategy concepts. These three areas of research covered by the IPDO Symposium have a number of things in common. For example, many methodologies for solving inverse problems employ optimization algorithms. However, there are no optimization algorithms that employ methods of inverse design that could substantially reduce the number of time-consuming analysis required by the typical evolutionary optimization algorithms. Similarly, design theory is not well known in the optimization community where formulation of the appropriate multiple objectives and system-of-systems design formulations are often performed using intuition and personal experience. The IPDO-2007 Symposium thus offered a unique international forum that is expected to provide an excellent basis for cross-fertilization of ideas and creation of new synergistic approaches and methodologies that will combine the three fields of research so that more general, robust, accurate and computationally economical design methods are created for multi-disciplinary applications. Contributions dealing with practical applications were encouraged, such as in petrochemistry, aeronautics, astronautics, bio-medicine, transport and sensing of pollutants, materials processing, remote sensing, non-destructive evaluation, material property determination, acceleration of optimization procedures, etc.

5. Summary of the Most Important Results

Location of IPDO-2007: The location for the IPDO-2007 Symposium was Newport Beachside Resort Hotel, 16701 Collins Avenue, Miami Beach, Florida, U.S.A. With a privileged location right on the beach, this hotel has one of the central and most stunning views of the famous North Miami Beach and it is ideal for those who are traveling on business or leisure. When reserving a hotel room, attendees were alerted to mention that it is for the IPDO-2007 so that they can obtain a negotiated reduced rate. Details were made available on the website http://mcolaco.freeshell.org/ipdo2007/index.htm

Convention Center: The hotel has three meeting rooms for up to 160 people, including a business center with a computer, FAX, and Xerox copying. For those desiring Internet access, we have negotiated with the hotel to provide wireless Internet access free of charge.

Transportation: For the conference participants, the flight destination shall be either Miami International Airport (MIA) or Fort Lauderdale Airport (FLL). Both airports are served by major airline carriers, with everyday flights from many cities in North America, Central and South America and Europe. Transportation from either of the two airports to the conference hotel on North Miami Beach is available either by bus (approximately $15 one way) or by taxi (approximately $40 one way) and it takes 30-45 minutes depending on traffic.

Registration Fees: All participants (including members of the organizing committee and invited speakers) were required to register and pay a registration fee according to the following table.

<table>
<thead>
<tr>
<th>Table 1. Registration fees and rates</th>
<th>Until February 1, 2007</th>
<th>After January 31, 2007</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participant</td>
<td>US $325.00</td>
<td>US $400.00</td>
</tr>
<tr>
<td>Graduate Student (with a proof of their status)</td>
<td>US $180.00</td>
<td>US $225.00</td>
</tr>
<tr>
<td>Guest (not attending technical sessions)</td>
<td>US $180.00</td>
<td>US $225.00</td>
</tr>
</tbody>
</table>
Registration fees were collected by the representatives of the FIU Student Chapter of the American Society of Mechanical Engineers. These funds were used to pay hotel fees (rental of conference rooms, food and drinks for the entire meeting including a reception on Sunday, April 15, 2007 and taxes). The registration fees were also used to pay for bags, T-shirts, caps, ball pens, printing of the Books of Abstracts, production of CDs with the abstracts, printing of volumes of IPDO-2007 paper proceedings, production of CDs with final papers, payment of travel expenses for several of the invited speakers, payment of PayPal service, and payment of FIU Student ASME chapter staff services.

![Fig. 1 A view from a balcony of Newport Beachside Resort Hotel, Miami Beach, Florida](image)

5.1 AFOSR RESEARCH OFFICE GRANT USE
This grant was for financial co-sponsorship of IPDO-2007 Symposium. Specifically, it was for payment of rentals of conference rooms ($1,500 plus FIU indirect costs) and for payment of stipends for several invited speakers as follows:

<table>
<thead>
<tr>
<th>Name of the person paid</th>
<th>Account charged</th>
<th>Air Force Office of Scientific Research grant FA9550-07-1-0290 to Florida International University</th>
</tr>
</thead>
<tbody>
<tr>
<td>Helmut Sobieczky (Germany)</td>
<td>$1,500.00</td>
<td></td>
</tr>
<tr>
<td>Colin Fox (New Zealand)</td>
<td>$3,000.00</td>
<td></td>
</tr>
<tr>
<td>Igor N. Egorov (Russia)</td>
<td>2,000.00</td>
<td></td>
</tr>
<tr>
<td>Nirupam Chakraborti (India)</td>
<td>$1,000.00</td>
<td></td>
</tr>
<tr>
<td>Helcio R.B. Orlande (Brazil)</td>
<td>$617.00</td>
<td></td>
</tr>
</tbody>
</table>

5.2 ORGANIZING COMMITTEE FOR IPDO-2007
The realization of the IPDO Symposium evolved from the scientific collaboration involving Prof. George S. Dulikravich, from Florida International University, Prof. Helcio R. B. Orlande, from the Federal University of Rio de Janeiro (Brazil), Prof. Masataka Tanaka from Shinshu University, Nagano (Japan), and Prof. Marcelo J. Colaço, from the Military Institute of Engineering (Brazil). They created the organizing committee for the symposium as follows:

CHAIR: Prof. George S. Dulikravich
CO-CHAIR: Prof. Helcio R. B. Orlande
CO-CHAIR: Prof. Masataka Tanaka
SECRETARY: Prof. Marcelo J. Colaço
5.3 INTERNATIONAL SCIENTIFIC COMMITTEE FOR IPDO-2007

The International Scientific Committee was composed of recognized experts in Inverse Problems, Design and Optimization, from the five continents and several countries. The committee supported the symposium mainly through the evaluation of all submitted contributions. In addition, many members of this committee attended the symposium to present papers and be invited lecturers. The international scientific committee of the IPDO-2007 Symposium is presented below.

Prof. Brian H. Dennis (USA)
Prof. Jay I. Frankel (USA)
Prof. John R. Howell (USA)
Prof. Yvon Jarny (France)
Prof. Jari P. Kaipio (Finland)
Prof. Alain J. Kassab (USA)
Prof. Karl-Jörg Langenberg (Germany)
Prof. William R. B. Lionheart (UK)
Prof. A. Haji-Sheikh (USA)
Prof. Giulio Maier (Italy)
Prof. Guoping Miao (PR China)
Prof. John C. Schotland (USA)
Prof. Antonio J. Silva Neto (Brazil)
Prof. Robert Throne (USA)
Prof. Pavel Trivailo (Australia)
Prof. Keith A. Woodbury (USA)
Prof. Anatoly G. Yagola (Russia)

5.4 SPONSORS AND PROMOTERS OF IPDO-2007

AFOSR/Numerical Mathematics (United States Air Force Office of Scientific Research)
ARO/Materials Division (United States Army Research Office)
Taylor & Francis Publishers (United Kingdom)
ESTECO - modeFRONTIER (Italy)
SIGMA Technology – IOSO Technology Center (Russia)
ASME FIU Student Section (ASME/Florida International University, U.S.A.)
UFRJ (Federal University of Rio de Janeiro, Brazil)

5.5 CALL FOR ABSTRACTS FOR IPDO-2007

Three times during fall/winter of 2006/2007, the following Call for Papers was e-mailed to approximately 10,000 colleagues throughout the world.

International Symposium on

INVERSE PROBLEMS, DESIGN AND OPTIMIZATION (IPDO-2007)


IPDO Symposium’s main objectives are to bring the three communities of researchers (inverse problems experts, design theory experts, and optimization experts) together and provide a common forum for presenting different applications, problems, and solution strategy concepts. These three areas of research to be covered by the IPDO Symposium have a number of things in common. For example, many methodologies for solving inverse problems employ optimization algorithms. But, there are no optimization algorithms that employ methods of inverse design that could potentially substantially reduce the number of time-consuming analysis required by the typical evolutionary optimization algorithms. Similarly, design theory is not well known in the optimization community where formulation of the appropriate multiple objectives and system-of-systems design formulations are often performed using intuition and personal experience. The IPDO Symposium thus offers a unique international forum that is expected to provide an excellent basis for cross-fertilization of ideas and creation of new synergistic approaches and methodologies that will combine the three fields of research so that more general, robust, accurate and computationally economical design methods are created for multi-disciplinary applications.

Organizers:
G.S. Dulikravich (chair), H.R.B. Orlande (co-chair), M. Tanaka (co-chair), M.J. Colaco (secretary)

Sponsors:
AFOSR (United States Air Force Office of Scientific Research)
ARO (United States Army Research Office)
T&F (Taylor & Francis Publishers)
ESTECO (Europe)
Sigma Technology (Russia)
FIU (Florida International University)
The IPDO-2007 Symposium will emphasize a broad range of deterministic, statistical, analytical, computational and experimental approaches, which can be applied to the solution of inverse, design and multi-disciplinary optimization problems. Contributions dealing with theoretical concepts and practical applications are encouraged, such as in petrochemistry, aeronautics, astronautics, bio-medicine, transport and sensing of pollutants, materials design and processing, remote sensing, non-destructive evaluation, material property determination, acceleration of large scale optimization, design theory, etc.

Deadlines:
1 October, 2006 proposals for organizing technical sessions (six papers per session)
1 November, 2006 deadline for submission of two-page abstracts in .pdf format
1 December, 2006 informing authors about acceptability of abstracts
1 February, 2007 deadline for submission of full eight-page papers
1 March, 2007 deadline for early registration

Abstracts and papers:
Please submit two-page abstracts (including preliminary results, basic figures, formulas, and references) in .pdf format to the following e-mail addresses: IPDO2007@GMAIL.COM, IPDO2007@YAHOO.COM
All accepted two-page abstracts will be published in a Book of Abstracts provided to all participants during IPDO-2007.
For information contact: George S. Dulikravich; tel. +1 (305) 348-7016; E-mail: dulikrav@fiu.edu

5.6 IPDO-2007 SYMPOSIUM AGENDA
The ipdo-2007 Symposium lasted three days with two keynote lectures each day. The Symposium involved two parallel sessions every morning and afternoon. Each session started with one 50 minute invited presentation followed by 6-8 contributed papers each taking 20 minutes. This means that there were a total of 6 keynote lectures and 93 contributed papers totaling 99 papers presented at IPDO-2007.
Finally, there was a round-table discussion involving the entire audience of the IPDO-2007 Symposium that attempted to summarize the entire meeting and bring forward a consensus list of recommendations concerning the most promising future directions in research that involves the three areas covered by the IPDO-2007. In addition, the IPDO-2007 participants were informed by the organizers that they are all invited to join in the efforts to form an international society of professionals working in these three areas of research.

5.7 KEYNOTE LECTURES
Keynote Lecture 1 (08:40-09:30, April 16, 2007 – Room 1): RECENT ADVANCES IN INFERENTIAL SOLUTIONS TO INVERSE PROBLEMS
Keynote Lecture 2 (14:00-14:40, April 16, 2007 – Room 1): MULTI-OBJECTIVE MDO SOLUTION STRATEGY FOR MULTIDISCIPLINARY DESIGN USING modeFRONTIER
Keynote Lecture 3 (08:40-09:30, April 17, 2007 – Room 1): FLUID FLOW IN HYDROCYCLONES OPTIMIZED THROUGH MULTI-OBJECTIVE GENETIC ALGORITHMS
Keynote Lecture 4 (14:00-14:40, April 17, 2007 - Room 1): USING OF THE IOSO NM SOFTWARE FOR COMPLEX OPTIMIZATION PROBLEMS
Keynote Lecture 5 (08:40-09:30, April 18, 2007 – Room 1): CREATING WAVE-FOCUSED MATERIALS
Keynote Lecture 6 (14:00-14:40, April 18, 2007 – Room 1): VARIABLE SURFACES FOR AEROSPACE DESIGN AND OPTIMIZATION

Table 3. IPDO-2007 SYMPOSIUM PROGRAM

<table>
<thead>
<tr>
<th>April 15, 2007 Sunday</th>
<th>April 16, 2007 Monday</th>
<th>April 17, 2007 Tuesday</th>
<th>April 18, 2007 Wednesday</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:45 – 8:40</td>
<td>Atlantis Room - Breakfast</td>
<td>Atlantis Room - Breakfast</td>
<td>Atlantis Room - Breakfast</td>
</tr>
<tr>
<td>08:20–08:40</td>
<td>Opening of the IPDO</td>
<td></td>
<td></td>
</tr>
<tr>
<td>08:40–09:30</td>
<td>Keynote Lecture 1 Colin Fox – 151</td>
<td>Keynote Lecture 3 Nirupam Chakraborti – 141</td>
<td>Keynote Lecture 5 Alexander Ramm - 140</td>
</tr>
<tr>
<td></td>
<td>Atlantis Room Allanov</td>
<td>Atlantis Room Kassab</td>
<td>Atlantis Room Emery</td>
</tr>
<tr>
<td></td>
<td>130</td>
<td>117</td>
<td>066</td>
</tr>
<tr>
<td></td>
<td>062</td>
<td>118</td>
<td>152</td>
</tr>
<tr>
<td></td>
<td>061</td>
<td>084</td>
<td>071</td>
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<tr>
<td>09:30–09:50</td>
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<td>100</td>
<td>052</td>
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<tr>
<td>09:50–10:10</td>
<td></td>
<td>103</td>
<td>053</td>
</tr>
<tr>
<td>10:10–10:30</td>
<td></td>
<td>082</td>
<td>015</td>
</tr>
</tbody>
</table>
5.8 PLANS FOR COOPERATIVE ACTIVITIES EMERGING FROM THE IPDO-2007

The main objective of the IPDO-2007 Symposium was to bring together researchers from different world regions, dealing with different inverse problems, design concepts and evolutionary multi-disciplinary optimization strategies, for the presentation of their most recent research results and for the technical discussion of their findings. Traditionally, it has been the heat and mass transfer community that has developed some of the most practical methodologies for solving the pertinent inverse problems in diverse applications. IPDO-2007 was clearly successful in bringing together an extremely diverse audience that included inverse problems experts, multi-objective constrained optimization experts and a community dealing with the automatic robust design theories. The fields of applications were equally diverse ranging from biomedicine, material science, materials processing, algorithm developments, solid mechanics, fluid mechanics, electromagnetism, aerospace, structural dynamics, heat transfer, non-destructive evaluations, etc.

At the IPDO-2007 Symposium, an announcement was made by the organizing committee that a new international society for inverse problems is currently been formed and that all IPDO participants are invited to become members once the official announcement is disseminated via Internet. This new society will bring together applied mathematicians, engineers, physicists, chemists, etc. that are interested in developing and utilizing methods and algorithms applicable to the solution of multi-disciplinary inverse problems, design and optimization.

6. Listing of all publications and technical reports supported under this grant or contract

6.1 PUBLICATIONS AND DISSEMINATION OF RESULTS

Printed Proceedings: Extended abstracts (two pages maximum) of all papers submitted for presentation at the IPDO-2007 Symposium (including the 6 keynote lectures) were refereed by a minimum of two anonymous reviewers. A book of abstracts and a CD-ROM containing all accepted papers were given to conference participants on site. All accepted papers were published in two soft-bound volumes of IPDO-2007 Proceedings and mailed to the conference participants within three months after the symposium was finished. Each of the two volumes of the IPDO-2007 Proceedings had approximately 400 pages.

A CD with .pdf files of all papers was also mailed to all participants. It is added to this report.

Dulikravich, G. S., Colaco, M. J., Orlande, H. R. B. and Tanaka, M. (editors):

Florida International University, Miami, FL, June 2007.

Dulikravich, G. S., Colaco, M. J., Orlande, H. R. B. and Tanaka, M. (editors):

Florida International University, Miami, FL, June 2007.
Internet Dissemination: All papers presented at the IPDO-2007 were also posted on the IPDO-2007 website http://www.ipdos.org/ipdo2007/ and made available to all of those that registered and/or attended IPDO-2007.

Journal Publication: Each author submitting a paper for presentation at the IPDO Symposium had an option to request that his/her paper, if addressing the general field of inverse problems, be reviewed and considered for a possible publication in the international journal Inverse Problems in Science and Engineering (IPSE) published by Taylor & Francis. Consequently, 58 of the 99 papers that were presented at IPDO-2007 were fully reviewed by three reviewers each. Fifteen papers were rejected and 44 full extended reviewed papers were accepted for publication in 6 special issues of the international journal Inverse Problems in Science and Engineering. All issues are to appear in IPSE in 2008.

Table 4. IPDO-2007 PAPERS: CODE NUMBERS, TITLES AND PAGES IN THE PROCEEDINGS

<table>
<thead>
<tr>
<th>PAPER</th>
<th>TITLE</th>
<th>PAGE</th>
</tr>
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<tr>
<td>003</td>
<td>INVERSE ANALYSIS APPLIED FOR DETERMINATION OF STRAIN - STRESS CURVES FOR STEEL DEFORMED IN SEMI-SOLID STATE</td>
<td>001</td>
</tr>
<tr>
<td>004</td>
<td>DETERMINATION OF THE LEADING COEFFICIENT IN FOURTH-ORDER STURM-LIOUVILLE OPERATOR FROM BOUNDARY MEASUREMENTS</td>
<td>009</td>
</tr>
<tr>
<td>006</td>
<td>DYNAMIC OBSERVERS BASED ON GREEN FUNCTIONS APPLIED TO 3D INVERSE THERMAL MODELS</td>
<td>015</td>
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<tr>
<td>008</td>
<td>PROJECTED GRADIENT METHODS FOR SYNCHROTRON RADIATION SPECTRA DISTRIBUTION FUNCTION RECONSTRUCTION</td>
<td>023</td>
</tr>
<tr>
<td>009</td>
<td>A NOVEL 3D MEASUREMENT SCHEME WITH ADAPTIVE FUZZY NETWORK MODEL RECONSTRUCTION</td>
<td>029</td>
</tr>
<tr>
<td>010</td>
<td>DETERMINATION OF DYNAMICAL LOAD DISTRIBUTIONS APPLIED TO MINDLIN PLATES BY PSEUDOSPECTRAL METHOD</td>
<td>037</td>
</tr>
<tr>
<td>011</td>
<td>STABLE NUMERICAL EVALUATION OF GRÜNWALD-LETNIKOV FRACTIONAL DERIVATIVES</td>
<td>044</td>
</tr>
<tr>
<td>012</td>
<td>FRACTIONAL IHCP WITH HALF TIME GRÜNWALD-LETNIKOV DERIVATIVES</td>
<td>049</td>
</tr>
<tr>
<td>013</td>
<td>ABOUT THE OPTIMUM DESIGN OF AN AIRCRAFT PRESSURE BULKHEAD BY USING MULTI-FIDELITY AND LIFECYCLE ALGORITHM</td>
<td>055</td>
</tr>
<tr>
<td>015</td>
<td>ESTIMATION OF THERMAL RESISTANCE DURING SURFACING BY WEDDING - SENSITIVITY ANALYSIS</td>
<td>063</td>
</tr>
<tr>
<td>017</td>
<td>OPTIMUM THERMAL MODES IDENTIFICATION OF POST-IMPLANTATION ACTIVATION ANNEALING OF SEMICONDUCTOR MATERIAL</td>
<td>070</td>
</tr>
<tr>
<td>020</td>
<td>QUANTITATIVE MILLIMETRE-WAVE IMAGING VIA THE GLOBALLY CONVERGENT CONVEXIFICATION ALGORITHM</td>
<td>078</td>
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<tr>
<td>021</td>
<td>ASPECTS OF APPROXIMATE OPTIMIZATION: OVERCOMING THE CURSE OF DIMENSIONALITY AND DESIGN OF EXPERIMENTS</td>
<td>083</td>
</tr>
<tr>
<td>023</td>
<td>INVERSE PROBLEM OF THE MEASUREMENTS THEORY</td>
<td>091</td>
</tr>
<tr>
<td>024</td>
<td>ROTATING PROJECTION ALGORITHM OF IMAGE RECONSTRUCTION AND APPLICATION FOR ROENTGEN TOMOGRAPHY</td>
<td>096</td>
</tr>
<tr>
<td>025</td>
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From this table it is evident that IPDO-2007 Symposium was truly international.

7. List of all participating scientific personnel showing any advanced degrees earned by them while employed on the project

As per Table 2, it is evident that $8,117 of the total amount of $10,000 budgeted in this grant was used strictly for paying stipends for several invited speakers. None of these individuals earned any advanced degrees while funded by this grant.

8. Report of inventions (by title only)

There were no inventions or patents that resulted from this funding of this project.

9. Bibliography

No literature was consulted when preparing this final report except for the two IPDO-2007 proceedings as follows:

Dulikravich, G. S., Colaco, M. J., Orlande, H. R. B. and Tanaka, M. (editors):
Florida International University, Miami, FL, June 2007.

Dulikravich, G. S., Colaco, M. J., Orlande, H. R. B. and Tanaka, M. (editors):
Florida International University, Miami, FL, June 2007.
10. Authors that presented papers
IPDO-2007 full papers that were submitted for review and publication in Inverse Problems in Science and Engineering journal are marked with YES in the last column. If they were not submitted to the journal, they are marked with NO in the last column.

Table 7. AUTHORS THAT PRESENTED THE IPDO-2007 PAPERS

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Volume I

INVERSE PROBLEMS, DESIGN AND OPTIMIZATION
(IPDO-2007)

Edited by:
George S. Dullkravich
Marcelo J. Colaco
Helcio R.B. Orlande
Masataka Tanaka

Volume II

INVERSE PROBLEMS, DESIGN AND OPTIMIZATION
(IPDO-2007)

Edited by:
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Masataka Tanaka
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Appendix III. Photos from the IPDO-2007 Symposium

Fig. 2 Hotel staff involved with IPDO-2007

Fig. 3 FIU ASME Student Chapter staff

Fig. 4 Opening of IPDO-2007 Symposium

Fig. 5 Technical paper presentations

Fig. 6 IPDO-2007 organizers at the banquet

Fig. 7 IPDO-2007 banquet and awards