

Joint International Workshop

on

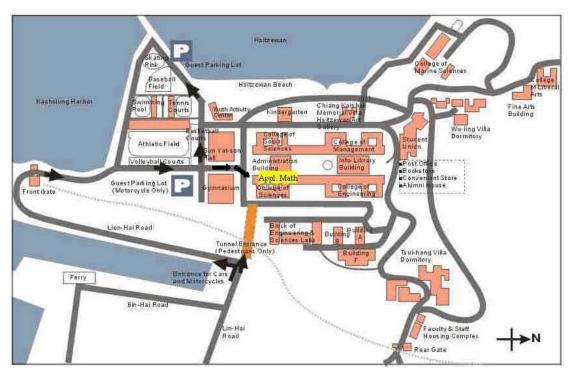
Trefftz Method VI and

Method of Fundamental Solutions II

Department of Applied Mathematics
National Sun Yat-sen University
Kaohsiung, Taiwan
March 15-18, 2011

Edited by
Z. C. Li, T. T. Lu, A. H.-D. Cheng
D. L. Young, J. T. Chen, C. S. Chen
and Y. T. Lee

National Sun Yat-sen University Campus Locations

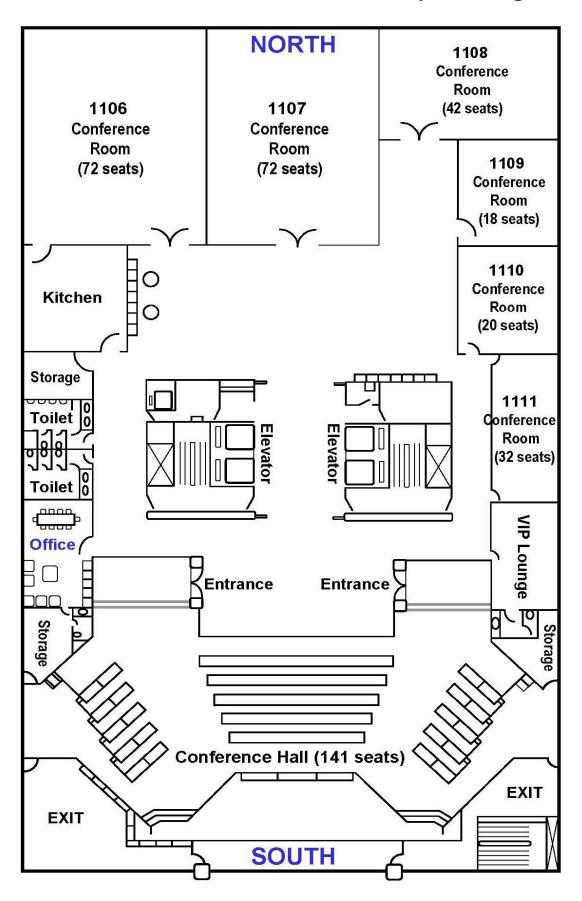


English version



Chinese version

The 11th Floor Plan of Info-Library Building



Program of the Joint Trefftz / MFS Conference 2011

| Time | March 15 (Tue) | March 16 (Wed) | March 17 (Thu) | March 18 (Fri) |
|-------------|---------------------------------|--------------------|--------------------|---------------------|
| 9:00~9:40 | Registration | Plenary Talk 3 | Plenary Talk 5 | Plenary Talk 6 |
| 9:40~10:00 | Tea / Coffee / Snacks | | Tea Break | |
| 10:00~11:00 | Opening Ceremony Plenary Talk 1 | Parallel Session 4 | Parallel Session 7 | Parallel Session 9 |
| 11:00~11:20 | Tea Break | | | |
| 11:20~12:20 | Parallel Session 1 | Parallel Session 5 | Parallel Session 8 | Parallel Session 10 |
| 12:20~14:00 | Lunch | | | |
| 14:00~14:40 | Plenary Talk 2 | Plenary Talk 4 | | Parallel Session 11 |
| 14:40~15:00 | Tea I | Tea Break | | Tea Break |
| 15:00~16:00 | Parallel Session 2 | Parallel Session 6 | Group Photo | Parallel Session 12 |
| 16:00~16:20 | Tea Break | | City Tour | Tea Break |
| 16:20~17:20 | Parallel Session 3 | Harbor Cruise | | Parallel Session 13 |
| 17:20~18:00 | Music Show | | | al . |
| 18:00~20:00 | Reception | Dinner | Banquet | Shopping |

[★] Parallel sessions include invited and contributed talks. Two sessions hold in the same time. Each talk has 20 minutes.

Program of Plenary Talks

Place: Conference Hall

| | Speaker: I. Herrera | Chair: Z. C. Li | | |
|----------------|--|---------------------|--|--|
| Plenary Talk 1 | Unified theory of differential operators acting on discontinuous | | | |
| | functions and of matrices acting on discontinuous vectors | | | |
| Plenary Talk 2 | Speaker: A. Karageorghis | Chair: C. S. Chen | | |
| Tienary Taik 2 | The MFS for inverse problems | | | |
| | Speaker: B. Šarler | Chair: D. L. Young | | |
| Plenary Talk 3 | RBF based solution framework for solving multiphysics and | | | |
| | multiscale problems | | | |
| | Speaker: Z. H. Yao | Chair: HK. Hong | | |
| Plenary Talk 4 | Some knowledgegained from my 30 years investigation on | | | |
| | boundary element methods | | | |
| Plenary Talk 5 | Speaker: R. Schaback | Chair: A. HD. Cheng | | |
| rienary faik 5 | Kernel-based meshless methods for solving PDEs | | | |
| | Speaker: A. P. Zielinski | Chair: T. T. Lu | | |
| Plenary Talk 6 | Miscellaneous open problems in the regular boundary collocation | | | |
| | approach | | | |

Brief Program of Invited and Contributed Talks

| Differ i rogiam of invited and Contributed Tarks | | | | | | | | |
|--|------------------------|---------------------|-----------------------|---------------------|----------------------|-------------------|---------------------|--|
| Place: Conf. Hall | Place: Room1107 | Place: Conf. Hall | Place: Room1107 | Place: Conf. Hall | Place: Room1107 | Place: Conf. Hall | Place: Room1107 | |
| Parallel Session 1 | | Parallel Session 2 | | Parallel | Parallel Session 3 | | Parallel Session 4 | |
| Chair: G. R. Liu | Chair: Q. H. Qin | Chair: S. C. Chiang | Chair: C. S. Liu | Chair: W. C. Yeih | Chair: T. L. Horng | Chair: E. Kita | Chair: K. Grysa | |
| G. R. Liu #075 | Q. H. Qin #026 | S. C. Chiang #088 | C. S. Liu #020 | W. C. Yeih #043 | T. L. Horng #049 | E. Kita #019 | K. Grysa #015 | |
| A. Naji #051 | W. S. Shyu #048 | V. Kompis #027 | B. Van Genechten #005 | W. Fujisaki #012 | Y. T. Lee #045 | Y. W. Chen #030 | A. GhannadiAsl #003 | |
| T. Zhang #072 | N. A. Dumont #047 | D. C. Lo #077 | C. L. Kuo #024 | L. J. Young #036 | J. W. Lee #044 | C. Y. Ku #078 | W. M. Lee #039 | |
| Parallel | Session 5 | Parallel | Session 6 | Parallel | Session 7 | Parallel | Session 8 | |
| Chair: HK. Hong | Chair: Y. M. Wei | Chair: A. Tadeu | Chair: H. Power | Chair: Y. C. Hon | Chair: M. Ciałkowski | Chair: J. D. Yau | Chair: N. Nishimura | |
| HK. Hong #067 | Y. M. Wei #082 | A. Tadeu #065 | H. Power #079 | Y. C. Hon #011 | J. A. Kołodziej #009 | T. S. Jiang #033 | N. Nishimura #087 | |
| B. Y. Ding #001 | T. Shigeta #074 | J. António #066 | C. J. Xu #086 | M. Mierzwiczak #028 | M. Ciałkowski #016 | J. D. Yau #034 | T. Matsumoto #084 | |
| X. P. Xie #069 | M. G. Lee #037 | C. T. Wu #052 | C. H. Hsiao #059 | C. M. Fan #038 | W. N. Zhang #083 | C. M. Fan #040 | A. GhannadiAsl #002 | |
| Parallel | Session 9 | Parallel S | Session 10 | Parallel S | Session 11 | Parallel S | Session 12 | |
| Chair: V. M. A. Leitão | Chair: J. Sladek | Chair: W. Chen | Chair: A. Uscilowska | Chair: C. C. Tsai | Chair: C. S. Huang | Chair: C. Gáspár | Chair: C. M. Fan | |
| V. M. A. Leitão #070 | J. Sladek #013 | A. HD. Cheng #061 | A. Uscilowska #007 | C. C. Tsai #006 | C. S. Huang #004 | C. Gáspár #008 | C. M. Fan #035 | |
| L. Ling #085 | C. Y. Lin #054 | W. Chen #021 | C. S. Wu #053 | M. H. Gu #055 | I. L. Chen #042 | Y. M. Zhang #014 | X. Wei #068 | |
| K. H. Chen #041 | T. S. Jiang #032 | H. Htike #010 | | | | Y. Gu #022 | Z. J. Fu #017 | |
| Parallel Session 13 | | | | | | | | |
| Chair: L. Ling | Chair: J. A. Kołodziej | | | | | | | |
| C. C. Hsiang #063 | C. P. Sun #057 | | | | | | | |
| T. F. Chen #062 | Y. L. Chan #56 | | | | | | | |
| Y. H. Huang #060 | C. H. Chen #058 | | | | | | | |
| | | | | | | | | |

Program of Invited and Contributed Talks

| Date: 03/15 (Tue) | Time: 11:20~12:20 Place: Conf. Hall Chair: GR. Liu | | |
|-------------------|--|--|--|
| Authors | Title | | |
| G. R. Liu | Meshfree methods by weakened weak (W2) formulations | | |
| A. Fili | Counting three field and maghlage mixed Calarlin mathods | | |
| A. Naji | Coupling three-field and meshless mixed Galerkin methods using radial basis function to solve parabolic equation | | |
| Y. Duan | | | |
| Tie Zhang | Optimal error estimate and superconvergence of the DG | | |
| Zheng Li | method for first-order hyperbolic problems | | |

| Date: 03/15 (Tue) | Time: 11:20~12:20 | Place:Room 1107 | Chair: Q. H. Qin |
|-------------------|---------------------|-----------------------|----------------------|
| Authors | | Title | |
| H. Wang | Calvina tha manlina | on Doigson true andh | lama vitla E Traffir |
| O. H. Oin | Solving the nonline | ear Poisson-type prob | iems with F-1remz |

| Q. H. Qin X. P. Liang | Solving the nonlinear Poisson-type problems with F-Trefftz hybrid finite element model |
|--|--|
| W. S. Shyu | SH-wave scattering at a semi-cylindrical hill and a semi-cylindrical alluvial basin by hybrid method |
| N. A. Dumont | Hybrid finite elements for strain gradient elasticity: |
| D. H. Mosqueira theory and patch tests | |

| Date: 03/15 (Tue) | Time: 15:00~16:00 Place:Conf. Hall Chair:S.C. Chiang | | | |
|--------------------------|---|--|--|--|
| Authors | Title | | | |
| S. C. Chiang | A numerical scheme for a class of singular integro-differential | | | |
| C. J. Tsou | equations with controls | | | |
| V. Kompiš | Parallel computational models for composites reinforced by | | | |
| et al. | short fibers | | | |
| D. C. Lo | A new embedding finite element method for viscous | | | |
| C. S. Chen | incompressible flows with complex immersed boundaries on | | | |
| D. L. Young | Cartesian grids | | | |

| Date: 03/15 (Tue) | Time: 15:00~16:00 Place:Room 1107 Chair: C. S. Liu | | | |
|-------------------|--|--|--|--|
| Authors | Title | | | |
| | The method of fundamental solutions for solving the backward | | | |
| C. S. Liu | heat conduction problem with conditioning by a new | | | |
| | post-conditioner | | | |
| B. Van Genechten | An efficient Wave Based Method for solving Helmholtz | | | |
| et al. | problems in three-dimensional bounded domains | | | |
| C. L. Kuo | A collocation Trefftz method with a post-conditioner for | | | |
| C. S. Liu | solving 2D Helmholtz problems in arbitrary domains with | | | |
| J. R. Chang | high wave numbers | | | |

| Date: 03/18 (Fri) | Time: 16:20~17:20 Place: Conf. Hall Chair: W. C. Yeih | | | | |
|-------------------|---|--|--|--|--|
| Authors | Title | | | | |
| W. C. Yeih | Solving the stress intensity factor for a planar crack by using | | | | |
| et al. | the modified multiple-source Trefftz method | | | | |
| W. Fujisaki | Consideration on effectiveness of the MES to linear noteh | | | | |
| T. Fujisawa | Consideration on effectiveness of the MFS to linear notch | | | | |
| T. Teranishi | mechanics | | | | |
| L. J. Young | Some numerical applications in fracture of materials | | | | |

| Date: 03/15 (Tue) | Time: 16:20~17:20 Place:Room1107 Chair: T. L. Horng | | | |
|--------------------------|---|--|--|--|
| Authors | Title | | | |
| Т І Цогла | Fast Chebyshev pseudospectral Poisson solver for all kinds of | | | |
| T. L. Horng | boundary conditions via diagonalization | | | |
| Y. T. Lee | Anti-plane shear problems containing several elliptical holes | | | |
| J. T. Chen | and/or inclusions | | | |
| J. W. Lee | Resonance and focusing of an elliptical harbor by using the | | | |
| J. T. Chen | null-field BIEM | | | |

| Date: 03/16 (Wed) | Time: 10:00~11:00 Place: Conf. Hall Chair: E. Kita | | | |
|-------------------|---|--|--|--|
| Authors | Title | | | |
| R. Fujiwara | | | | |
| N. Sekiya | Energy derivative valuation using radial basis function | | | |
| E. Kita | | | | |
| Y. W. Chen | Numerical simulation of the two-dimensional sloshing | | | |
| et al. | problem using a multi-scaling Trefftz method | | | |
| | Radial basis function methods incorporated with a | | | |
| C. Y. Ku | manifold-based exponentially convergent algorithm for | | | |
| | solving partial differential equations | | | |

| Date: 03/16 (Wed) | Time: 10:00~11:00 | Place:Room1107 | Chair: K. Grysa | |
|--------------------------|--|----------------|-----------------|--|
| Authors | Title | | | |
| K. Grysa | Indirect Trefftz method in the non-stationary problems | | | |
| A. GhannadiAsl | Application of indirect Trefftz boundary method in solving the | | | |
| | Helmholtz equation in 2D finite domain | | | |
| W. M. Lee | The collocation Trefftz method for acoustic scattering by | | | |
| | multiple elliptical cylinders | | | |

| Date: 03/16 (Wed) | Time: 11:20~12:20 Place: Conf. Hall | Chair: <i>HK. Hong</i> |
|-------------------|---------------------------------------|---------------------------|
| Authors | Title | |
| U V Цора | Clifford-valued boundary methods for | anisotropic vector |
| HK. Hong | potential problems | |
| B. Y. Ding | The coupling solutions of the dynamic | partial differential |
| et al. | equations and decomposition of a gene | ralized function δ |
| X. P. Xie | Unhaid strong finite valume method f | or linear alecticity |
| L. Chen | Hybrid stress finite volume method f | of fifical elasticity |
| Y. Wu | problems | |

| Date: 03/16 (Wed) | Time: 11:20~12:20 | Place: Room1107 | Chair: <i>Y. M. Wei</i> |
|--------------------|---------------------|--------------------|-------------------------|
| Date. 05/10 (Wear | 111110. 11.20 12.20 | i iacc. ixoomiiio/ | |

| Authors | Title | |
|-----------------|---|--|
| Yi-Min Wei | | |
| Tzon-Tzer Lu | Effective condition number for weighted linear least squares | |
| Hung-Tsai Huang | problems and applications to the Trefftz methods | |
| Zi-Cai Li | | |
| T Chicata | Condition number and the related mathematical study on | |
| T. Shigeta | boundary meshless methods for the laplace equation in an | |
| D. L. Young | exterior unbounded domain | |
| M. G. Lee | Corner and arealy singularity of different types of houndary | |
| Z. C. Li | Corner and crack singularity of different types of boundary conditions for linear elastostatics and their numerical solutions | |
| P. C. Chu | conditions for finear erastostatics and their numerical solutions | |

| Date: 03/16 (Wed) | Time: 15:00~16:00 Place: Conf. Hall Chair: A. Tade | eu – |
|-------------------|--|------|
| Authors | Title | |
| A. Tadeu | Wave propagation involving solid-fluid interaction using | g a |
| I. Castro | BEM/TBEM and MFS coupling formulation | |
| J. António | The method of fundamental solutions used to simulate so | und |
| A. Tadeu | wave propagation inside a sound absorbent enclosed spa | ce |
| $C = W_{tr}$ | Application of the method of fundamental solutions and | the |
| C. T. Wu | generalized Lagally theorem to the hydrodynamic force | on |
| D. L. Young | solid body with external singularity | |

| Date: 03/16 (Wed) | Time: 15:00~16:00 | Place: Room1107 | Chair: <i>H. Power</i> |
|---------------------|---------------------|--------------------|------------------------|
| Date. 05/10 t vicui | 111110. 15.00 10.00 | i iacc. ixuumiiiu/ | |

| Authors | Title | |
|-------------|---|--|
| H. Power | Doundary alament solution of Stales name flavy between | |
| C. Nieto | Boundary element solution of Stokes nano-flow between | |
| M. Giraldo | curved surfaces with linear and nonlinear boundary condition | |
| CIV | An unstructured nodal spectral-element method for the | |
| C. J. Xu | Navier-Stokes equations | |
| C. H. Hsiao | The singularity method: on the motion of a rotating sphere in | |
| D. L. Young | unsteady Stokes flows | |

| Date: 03/17 (Thu) | Time: 10:00~11:00 | Place: Conf. Hall | Chair: Y. C. Hon |
|-------------------------|--------------------|-------------------------|----------------------|
| Authors | | Title | |
| Y. C. Hon | A localized direct | meshless method for | ill-posed inverse |
| M. Li | | problems | |
| M. Mierzwiczak | The inverse determ | ination of the therma | l contact resistance |
| | between components | s of unidirectionally r | reinforced composite |
| II E Chan | The modified collo | cation Trefftz method | d and exponentially |
| H. F. Chan C. M. Fan | convergent scala | r homotopy algorithr | n for the inverse |
| | bound | ary determination pro | oblem |

| Date: 03/17 (Thu) | Time: 10:00~11:00 Place:Room1107 Chair: M. Ciałkowski |
|--------------------------|---|
| Authors | Title |
| J. A. Kołodziej | Application of the method of fundamental solutions for inverse |
| M. Mierzwiczak | problem of determination of the Biot number |
| M. Ciałkowski | Solution of inverse design problem of cooling of annulus by the |
| | method of fundamental solutions and minimization of intensity |
| J. A. Kołodziej | of entropy production |
| W. N. Zhang | An algorithm for Melnikov functions and applications |

| Date: 03/17 (Thu) | Time: 11:20~12:20 Place: Conf. Hall Chair: J. D. Yau |
|-------------------|---|
| Authors | Title |
| T. S. Jiang | A naw numerical method for one dimensional time dependent |
| Z. L. Jiang | A new numerical method for one-dimensional time-dependent |
| J. Kolibal | Schrodinger equation using radial basis functions |
| S. R. Kuo | Applications of Trefftz method to torsionally loaded bucking |
| J. D. Yau | of a circular plate with a center hole |
| Y. C. Liu | The least squares Trefftz method with external source for the |
| et al. | eigenfrequencies of waveguides |

| Date: 03/17 (Thu) | Time: 11:20~12:20 Place:Room1107 Chair: <i>N. Nishimura</i> | |
|--------------------------|---|--|
| Authors | Title | |
| N. Nishimura | Calderon preconditioners for periodic FMMs in wave | |
| | transmission problems | |
| T. Matsumoto | Shape and topology optimizations using BEM and a level set | |
| et al. | based method | |
| A. GhannadiAsl | A wavelet-Galerkin boundary element method for the 2D | |
| | Helmholtz problem | |

| Date: 03/18 (Fri) | Time: 10:00~11:00 Place:Conf. Hall Chair: V.M.A. Leitão | |
|-------------------|---|--|
| Authors | Title | |
| V. M. A. Leitão | Flexible local approximations using fundamental solutions | |
| Lling | Applicability and optimality of the method of fundamental | |
| L. Ling | solutions | |
| C. T. Chen | New estimation technique of the optimal source points | |
| K. H. Chen | location in the method of fundamental solutions for | |
| F. L. Jhone | multi-connected problem | |

| Date: 03/18 (Fri) | Time: 10:00~11:00 Place: Room1107 Chair: <i>J. Sladek</i> |
|-------------------|---|
| Authors | Title |
| C. S. Chen | The method of fundamental solutions verse the method of |
| J. Sladek | particular solutions |
| C. Y. Lin | The leveline described of continuous between few 4h a Decrease? |
| M. H. Gu | The localized method of particular solutions for the Burgers' |
| D. L. Young | equations via the Cole-Hopf transformation |
| T. S. Jiang | A new numerical method of particular solutions for |
| et al. | one-dimensional time-dependent Schrödinger equations |

| Date: 03/18 (Fri) | Time: 11:20~12:20 Place: Conf. Hall Chair: W. Chen | |
|-------------------|--|--|
| Authors | Title | |
| A. HD. Cheng | Multiquadric and its shape parameter | |
| W. Chen | December advisioners on singular havindamy meethed | |
| Y. Gu | Recent advances on singular boundary method | |
| H. Htike | | |
| W. Chen | Material point method with RBF interpolation | |
| J. J. Yang | | |

| Date: 03/18 (Fri) | Time: 11:20~12:20 | Place:Room1107 | Chair: A. Uscilowska |
|-------------------|--|------------------------|------------------------|
| Authors | | Title | |
| A. Uscilowska | An implementation of | of the method of fun | damental solutions for |
| D. Berendt | the dynami | ics of a plate large d | isplacement |
| C. S. Wu | | :1 | |
| D. L. Young | Method of fundamental solutions for the vibroacoustic analysis | | |
| | | | |

| Date: 03/18 (Fri) | Time: 14:00~14:40 | Place: Conf. Hall | Chair: C. C. Tsai |
|-------------------|---|----------------------|-------------------|
| Authors | | Title | |
| C. C. Tsai | On the exponential | convergence of meth | od of fundamental |
| P. H. Lin | | solutions | |
| M. H. Gu | The Eulerian-Lagrangian method of fundamental solutions for the hyperbolic system problem | montal solutions for | |
| C. Y. Lin | | | |
| D. L. Young | | | |
| | | | |

| Date: 03/18 (Fri) T | ime: 14:00~14:40 | Place:Room1107 | Chair: C. S. Huang |
|---------------------|------------------|----------------|--------------------|
|---------------------|------------------|----------------|--------------------|

| Title |
|---|
| |
| On the shape parameter of the MFS-MPS scheme |
| |
| Interaction of water waves with vertical cylinder using the |
| method of fundamental solutions |
| |

| Date: 03/18 (Fri) | Time: 15:00~16:00 Place: Conf. Hall Chair: C. Gáspár | |
|-------------------|--|--|
| Authors | Title | |
| C. Gáspár | Regularization techniques for the method of fundamental | |
| | solutions | |
| Y. M. Zhang | An average govern mechanism method for golving the notential | |
| W. Z. Qu | An average source meshless method for solving the potential | |
| J. T. Chen | problems | |
| Y. Gu | Investigation on nearly-boundary solutions by singular | |
| W. Chen | boundary method | |

| Date: 03/18 (Fri) | Time: 15:00~16:00 Place: Room1107 Chair: C. M. Fan |
|-------------------|--|
| Authors | Title |
| H. H. Li | Colving the direct and inverse Stales are blome by the |
| C. M. Fan | Solving the direct and inverse Stokes problems by the |
| H. F. Chan | boundary knot method and Laplacian decomposition |
| X. Wei | The boundary knot method for Poisson and inhomogeneous |
| W. Chen | biharmonic problems |
| Z. J. Fu | Heat conduction analysis in functionally analysis and materials by |
| W. Chen | Heat conduction analysis in functionally graded materials by |
| Q. H. Qin | two boundary collocation methods |

| Date: 03/18 (Fri) | Time: 16:20~17:20 Place: Conf. Hall Chair: L. Ling | |
|--------------------------|--|--|
| Authors | Title | |
| C. C. Hsiang | 2D Shallow Water Equations by Localized Mashless Mathods | |
| D. L. Young | 2D Shallow Water Equations by Localized Meshless Methods | |
| T. F. Chen | The local radial basis function differential quadrature method | |
| et al. | for 1D shallow water equations | |
| Y. H. Huang | Local radial basis function-based differential quadrature | |
| et al. | method for 2-D free surface problem | |

| Date: 03/18 (Fri) | Time: 16:20~17:20 Place:Room1107 Chair: J. A. Kolodziej |
|--------------------------|--|
| Authors | Title |
| D. L. Young | Pricing options for the jump-diffusion models by the local |
| C. P. Sun | differential quadrature method |
| Y. L. Chan | The interpolation techniques based on the local radial basis |
| et al. | function differential quadrature method |
| D. L. Young | A linear iterative investigation for MFS with EEM to solve the |
| C. H. Chen | 3D nonhomogeneous diffusion equation |

Notes to Presenters

- 1. When presenting a paper it is essential to consider the type of audience you will be addressing.
- 2. Having determined your audience the next step is to decide what you want to tell them. In planning your presentation you must first answer the question "why do I want to talk to these people?"
- 3. Structure your presentation in a similar way to your written paper. First introduce yourself and the presentation, then move to the main body of the paper. Having done that, draw your conclusions and describe future work.
- 4. The purpose of a presentation is to make the audience want to understand more about your subject. You should assume that people have not read your paper, so you should try to make them want to read it.
- 5. Prepare well in advance. By preparing early, the presentation experience should go smoothly with less anxiety.
- 6. Practice your presentation in front of people who do not understand your work.
- 7. Marketing presentations and product pitches are not acceptable presentations and will receive poor feedback from delegates.

Presenting

- 8. Under no circumstances should you read your paper. Each slide should contain bullet points and you should speak in complete sentences and paragraphs.
- 9. Speak to the audience not the screen and the laser pointer.
- 10. Remember that many of the delegates do not speak English as a first language Please speak clearly and not too quickly.
- 11. Accurate timekeeping is essential to ensure the smooth running of the conference. Remember that the time you have been allocated includes time for Q&A. Delegates do not appreciate long presentations and sessions overrunning.
- 12. Allow 2 minute per slide and remember to pause so the audience can read the whole slide. Don not block part of the slide

Presentation Equipment

13. A computer and LCD projector will be available for your use. If you require other equipment please let us know well in advance and be aware that this may incur an additional charge payable by you. In case of need contact the conference secretariat as soon as possible.

Presentation of your material

- 14. Your presentation will be greatly enhanced with the use of a good slide show. Your aim should be to make your presentation as easy to follow as possible.
 - Try to use landscape format where possible
 - Use color wherever possible and make sure that the colors can be distinguishable at the back of a large room
 - Spacing makes the rest of the slide easier to read don't cram your slides full.
 - Avoid putting important information at the bottom of the page. It can be difficult for some people to see the entire screen.
 - Have between 3-5 pints per slide and do not use too many equations.
 - The first slide should have the name of your presentation, your name and the conference name and date. Your organisation's name should be placed at the bottom corner of each slide along with your own name.
 - Remember that a picture or graph is very informative. Check beforehand
 that our presentation is of good quality and that they can be read from a
 distance.
 - Try the LCD projector in advance to avoid delays or disruptions.
 - CD Rom or USB sticks are the most common form of media used. Please note that modern laptops do not have a floppy drive anymore.
 - Meet your session Chairman at least 10 minutes before the session starts.