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Dept. of Computer and Information Sciences
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PRESENT POSITION:

- **Clavius Distinguished Professor of Science** (2005 --- ***) and Professor of Computer and Information Sciences, Fordham University, New York, NY, USA.

RESEARCH INTERESTS:

- Data science, micro- and macro-informatics, cognitive computing, ensemble methods, interconnection networks, AI, and combinatorial fusion analysis (CFA).
- Structure, algorithm, and applications of CFA in: biomedical informatics and chemo-informatics, brain science and computational social science, cognitive neuroscience and decision making, information and communication technology, finance and business intelligence, machine learning and multi-layer combinatorial fusion.

PREVIOUS ACADEMIC EXPERIENCES:

- Assist., Assoc., and Professor; Fordham University (1979-***)
- Visiting Scholar: M.I.T. (Division of Appl. Math and Lab. for Computer Science.) (1986-87)
- Short-term Visiting Positions:
CNRS and University of Paris-Sud (Summer, 1989); Polish Academy of Science, Poland (Aug. 1990); Keio University (IBM Endowed Chair Professor, Yokohama, Japan) (Fall, 1991); Academia Sinica, Taipei, Taiwan (Summer, 1992); JAIST (Komatsu Endowed Chair Professor, Kanazawa, Japan) (Fall, 1993); Taiwan University (1998); Fordham BiMBA Program (Dec 2003 – Jan 2004); Tsinghua University, Hsin-Chu, Taiwan (Spring, 2004); DIMACS (Special Years on Next Generation Network Technology, Feb.2001-March 2002; Special Years on Information Fusion, Dec. 2012-Jan.2016).

EDUCATION:

- Cheng Kung University, Tainan, Taiwan (B.S., Mathematics, 1970)
- University of Texas at El Paso (M.S., Number Theory (1975))
- Rensselaer Polytechnic Institute (M.S., Computer and Information Science, 1981)
- University of Michigan (Ph.D., Combinatorial and Applied Mathematics (1979))

ADMINISTRATIVE AND ORGANIZATIONAL SERVICES:

- Director of Fordham Microcomputer Labs (1983-1984).
- Chair, Computer and Information Science Department Fordham Uni. (1987-1992, 1999-2006).
- Chair, Section of Computer and Information Sciences, New York Academy of Science (1992-97).
- Organizer for six workshops at DIMACS (1994, 1998, 1999, 2001, 2012, 2013)
(Center for Discrete Mathematics and Theoretical Computer Science, research center funded by an NSF seed grant and by a consortia of Rutgers University, Princeton University, AT&T Research, Telecordia, and NEC Research Institute).
- Director of Graduate Program in Computer Science Fordham Uni. (1995-1999).
- Associate Dean, Graduate School of Arts and Sciences, Fordham University (2008-2009).
- Program Co-Organizer, Fordham-IBM Forum on Analytics (2012).

- Program Committee, IEEE ICCI*CC (2011, 2013(also Conf. Comm. Co-Chair), 2014, 2015).
- Program Committee, FFC 2013 (2013).
- Co-Founder, M.S. in Cybersecurity (MSCY), Graduate School of Arts and Science, Fordham University, MSCY (Sept. 2014).
- Program Committee, IEEE SSCI, CIDM Symposium (2014, 2015).
- Co-Founder, M.S. in Data Analytics (MSDA), Graduate School of Arts and Science. Fordham University, MSDA (Sept. 2016).
- Program Co-Organizer; Fordham-IBM Workshop on Blockchain (Jan. 2017).
- Program Organizer: Special Clavius Distinguish Lecture: 480 year birthday, and a panel on the legacy of Clavius and Jesuit pedagogy (Oct. 2018).
- Program Co-Chair, Steering Co-chair, or General Co-Chair of I-SPAN (International Symposium on Parallel Architecture, Algorithms, and Networks.) (The 15th I-SPAN' 2019, Naples, Italy; Sept. 16-19, 2019) (1994-***).
- Program Committee Co-Chair of the International Conference on Cyber Security (ICCS), at Fordham University: (Co-Founder and Conference Co-Chair 2009), 2010, 2012, 2013, 2015, also Advisory Committee (2016, 2018 -- ***).
- Vice chair and chair of New York Chapter of the IEEE CIS Society (2011-2013, 2014-***).
- Program Organizer: Clavius Distinguished Lecture (2011, 2012, 2014 -***).
- Program Committee, Brain and Health Informatics (2013-***).

EDITORIAL BOARDS:

- *Advances in Discrete Mathematics and Computer Science*, Hadronic Press, Inc., Nonantum, MA, Series Editor (1984-90).
- *Networks*, John Wiley & Sons, Inc., New York, Associate Editor (1988-2000).
- *Algebras, Groups and Geometries*, Hadronic Press, Inc., Palm Harbor, Florida, Editor (1990-2000).
- *Monograph on Discrete Mathematics and Theoretical Computer Science*, Science Press New York, Ltd., New York, Editor (1991-98).
- *IEEE Transactions on Computers*, IEEE Computer Society, Washington, D.C., Editorial Board Member (1992-96).
- *Theoretical Computer Science*, Shanghai Science and Technology Literature Co., Shanghai, China, Editorial Board Member (1994-2000).
- *International Journal of Foundations of Computer Science*, World Scientific Publishing Company, River Edge, New Jersey, Editorial Board Member (1994-2002).
- *Monograph on Combinatorial Optimization*, Kluwer Academic Publishers, Boston, Advisory Editor (1996-2000).
- *Discrete Math and Theoretical Computer Science*, International Thompson Publishing, Paris, France, Editorial Board Member (1996-2000).
- *Pattern Recognition Letters*, Elsevier Scientific Publications, Associate Editor (2007-2010).
- *IEEE Transactions on Reliability*, IEEE Reliability Society, Associate Editor (2015-2016).
- *Journal of Interconnection Networks*, World Scientific Publishers, New Jersey, Singapore, and London.
 - * Co-Founder and Co-Managing Editor (2000-02).
 - * Editor-in-Chief (Jan. 2003 – Dec. 2006).
 - * Special Issue Editor (2006-***).
- *Journal of Advanced Mathematics and Applications*, American Scientific Publishers, Valencia, California. Editorial Board Member (2012-***).
- *Health Information Science* book series, Springer, Editorial Board Member (2013-***).

- *Brain Informatics*; Brain Data Computing and Health Informatics, Springer, Associate Editor (2014-***).
- *International Journal of Big Data Intelligence*, Inderscience Publishers, Associate Editor (2017 - ***).
- *Cyber Security: A Peer-Reviewed Journal*, Henry Steward Publications, Editorial Board (2018-***).
- *IEEE Systems Journal*, Associate Editor (2018 - ***).

ADVISORY BOARDS AND OTHER PROFESSIONAL SERVICES:

- New York Academy of Sciences, Section of Mathematics, Advisory Board (1988-1989).
- New York Academy of Sciences, Section of Computer and Information Science, Advisory Board (1988-2001).
- U.S. Department of Education, Consultant and Reader, Washington, D. C. (4/90, 2/91, 5/95, 4/98, 4/01, 4/02).
- NEC Research Institute, Princeton, New Jersey, Consultant (02/1991).
- President Information Corporation, Taipei, Taiwan, Advisory Board (1994-02).
- DIMACS Special Year on Networks, Advisory Board (1996-99).
- Philippine Ministry of Science and Technology, World Bank, and Ateneo de Manila University, Manila, Philippines, Consultant and Visiting Professor (01/1996, 06/1997 - 07/1997).
- EPRIT (European Program for Research in Information Technology), Reviewer (1997).
- ARC (Australian Research Council), Reviewer (1997-98).
- IEEE Technical Committee on Parallel Processing (TCPP), Advisory Board (1997-02).
- National Science Council, Executive Yuan, Taiwan, Advisor (7/01-6/03).
- Science & Technology Advisory Group (STAG), Executive Yuan, Taiwan, Advisory Board (8/01).
- Ministry of Transportation and Communications and Directorate General of Telecommunications, Taipei, Taiwan, Advisory Board Meeting (9/01).
- IEEE International Conference on Advanced Information Networking and Applications, Advisory Committee (2003-2008).
- ISIBM: International Society of Intelligent Biological Medicine; Advisory Board (2010-2011).
- Gains in Education and Research on Mathematics and Sciences (GERMS), USARIEM, Natick MA. Scientific Advisory Committee (2012, 2013).
- Elizabeth City State University, External Advisory Committee (2014-2015).
- IEEE Biometric Council, Council Member (2014-2016).
- IEEE CIS Technical Committee on Data Mining and Big Data Analytics, Technical Committee Member (2014-2015).
- National Science Foundation (NSF), Review Panel (May, 2018).
- College of Science, University of Texas at El Paso, El Paso, Texas; Advisory Board (2014-***).

HONORS AND AWARDS:

- Foundation Fellow (1990), Institute of Combinatorics and its Applications (ICA).
- IBM Chair Professor (1991), Keio University, Tokyo and Yokohama, Japan.
- Komatsu Chair Professor (1993), Japan Advanced Institute of Science and Technology (JAIST), Kanazawa, Japan.
- Fellow (1999), New York Academy of Sciences (NYAS).
- Bene Merenti (1999), Fordham University (Meritorious Service Award).
- Distinguished Teacher's Award (Feb. 2001), Fordham University.
- Senior member (2002), IEEE and IEEE Computer Society.

- Best Paper Award (2005), IEEE-AINA Conference.
* Paper: A dynamic pruning and feature selection strategy for real-time tracking, by D. F. Hsu and D. Lyons.
- Clavius Distinguished Professor of Science (2005), Fordham University.
- Fellow (2012), International Institute of Cognitive Informatics and Cognitive Computing (ICIC).
- IBM Faculty Award (2012) (Information and Cyber Security), IBM.
- Best Paper Award (2013), Brain and Health Informatics, Maebashi, Japan.
* Paper: Combining Two Visual Cognition Systems Using Confidence Radius and Combinatorial Fusion, by A. Batallones, K. Sanchez, B. Mott, C. McMunn-Coffran, and D. F. Hsu.
- Distinguished Service Award (2014), Chinese American Academic and Professional Society (CAAPS), New York.
- Best Paper Award (2017), 11th International Conference on Frontier of Computer Science and Technology, (2017), Exeter, UK.
* Paper: Tight bounds in message delays despite faults in a class of line digraph networks, by P. D. Joshi, D. F. Hsu, A. Sen, S. Hamdioui, and K. Bertels.

RESEARCH SUPPORT:

- NRC/NAS (Inter. Acad. Exch. Prog.), NEC Research Institute, DoD (DISA), USDoE, Bloomberg, and IBM.
- IBM Japan (and Keio University), Komatsu Ltd.(and Japan Advanced Institute of Science and Technology.)

PUBLICATIONS AND SCHOLARLY WORK

- Published 13 books and book chapters published by Springer-Verlag, Harper & Row, CRC Press, Cold Spring Harbor Laboratory Press, Kluwer Academic Publisher, Fordham University Press, World Scientific Publishing, and The Idea Group.
- Published 27 special issues and proceedings of international conferences.
- Published over 200 papers (over 100 in journals and books and over 100 in referred proceedings of international conferences and meetings.)

THESIS COMMITTEE AND RESEARCH SUPERVISOR

- Have supervised research thesis for 5 Ph.D.'s and 15 master's.
- Have served on thesis committee for 17 Ph.D.'s and 17 master's.

PRESENTATIONS AND INVITED TALKS

- Given 57 keynote speeches, plenary talks, and special lectures.
- Given 70 presentations in other professional meetings and conferences across the world.
- Given over 280 invited lectures at over 100 institutions and research organizations in Asia, Europe, and the U.S.

PUBLICATIONS (D. Frank Hsu)

(A) BOOKS AND BOOK CHAPTERS (AUTHORED/ CO-AUTHORED):

- (1) D. F. Hsu; *Cyclic Neofields and Combinatorial Designs*, Lecture Notes in Mathematics, V. 824, Springer-Verlag, Berlin-New York-Heidelberg, (1980), 230 pages.
- (2) H. Bomzer and D. F. Hsu; *Silver/Silver Computer and Information Processing Test Bank*, Harper & Row, (1985), 308 pages.
- (3) D. Z. Du, F. Cao, and D. F. Hsu; De Bruijn Digraphs, Kautz Digraphs, and Their Generalizations, in *Combinatorial Network Theory* (D. Z. Du and F. D. Hsu, edited), Kluwer Academic Publishers (1996), pp. 65-106.
- (4) M. D. Grammatikakis, D. F. Hsu and M. Kraetzl; *Parallel System Interconnections and Communications*, CRC Press (2000), 412 pages.
- (5) D. F. Hsu, Y.-S. Chung, and B. S. Kristal; Combinatorial Fusion Analysis: Methods and Practices of Combining Multiple Scoring Systems, Chapter 3 in *Advanced Data Mining Technologies in Bioinformatics*, edited by Hui-Huang Hsu, Idea Group Inc. (2006), pp.32-62.
- (6) H. D. Vinod, D. F. Hsu, and Y. Tian; Combinatorial Fusion for Improving Portfolio Performance, in *Advance in Social Science Research Using R*, (H.D. Vinod edited), Springer (2010), pp. 95-105.
- (7) D. F. Hsu and I. Taksa; Combinatorial Fusion Analysis for Meta Search Information Retrieval, in *Web-based Support Systems*, (J.T. Yao, Editor), (2010).
- (8) S. Brown, D. F. Hsu, C. Schweikert, and Z. Tang; ChIP-seq Analytics: Methods and Systems to Improve ChIP-Seq Peak Identification, in *Systems Biology: Applications in Cancer-Related Research* (H.F. Juan and S.C. Huang edited). World Scientific Publishing Company, (2012), pp. 89-112.
- (9) D. F. Hsu; Genome Assembly Using Generalized de Bruijn Digraphs. Chapter 5 in *Next-Generation DNA Sequencing Informatics* (S. Brown edited). Cold Spring Harbor Laboratory Press (2013), pp. 83-95.
- (10) Z. Tang, C. Schweikert, D. F. Hsu, and Brown, S. M.; ChIP-Seq DNA Sequencing. Chapter 9 in *Next-Generation DNA Sequencing Informatics* (S. Brown edited). Cold Spring Harbor Laboratory Press (2013), pp. 139-169.
- (11) D. F. Hsu; Building a Secure and Sustainable Cyberspace Ecosystem. *Advances in Cyber Security: Technology, Operations, and Experiences* (D. Frank Hsu and D. Marinucci edited). Fordham University Press, (2013), pp. 1-33.
- (12) D. F. Hsu; Genome Assembly Using Generalized de Bruijn Digraphs. Chapter 5 in *Next-Generation DNA Sequencing Informatics* (second edition, edited by S. Brown). Cold Spring Harbor Laboratory Press (2015), pp. 127-140.
- (13) Z. Tang, C. Schweikert, D. F. Hsu, and S. Brown; ChIP-seq DNA Sequencing. Chapter 9 in *Next-Generation DNA Sequencing Informatics* (second edition, edited by S. Brown). Cold Spring Harbor Laboratory Press (2015), pp. 217-273.

(B) BOOKS EDITED:

- (1) D. F. Hsu; *Neofields and Combinatorial Designs*, Volume I, (edited) in *Advances in Discrete Mathematics and Computer Science*, Hadronic Press, Inc., (1985), 396 pages.
- (2) D. F. Hsu; *Generalized Complete Mappings* (edited), *Advances in Discrete Mathematics and Computer Science: Volume II*, Hadronic Press, Inc. (1987), 350 pages.
- (3) M. Capobianco, M. Guan, D. F. Hsu and F. Tian; *Graph Theory and Its Applications: East and West*, *Annals of the New York Academy of Sciences*, V.576 (edited) (1989), 724 pages.
- (4) Y. Alavi, F. R. K. Chung, R. L. Graham and D. F. Hsu; *Graph Theory, Combinatorics, Algorithms, and Applications* (edited), Society of Industrial and Applied Mathematics, (1991), 635 pages.

- (5) G. S. Bloom and D. F. Hsu; *Graph Labeling Problems*, Special Issue in *Discrete Mathematics* V. 93 (edited), North Holland, (1991), 261 pages.
- (6) D. F. Hsu; *Interconnection Networks and Algorithms*, special issue in *Networks* V. 23, No. 4 (edited), John Wiley and Sons, (1993), 250 pages.
- (7) F. Chin, D. F. Hsu, R.C. T. Lee, C. L. Liu, and G. Wong; *Proceedings of the International Workshop on Discrete Mathematics and Algorithms* (edited), (1993), Hong Kong, 234 pages.
- (8) S. Horiguchi, D. F. Hsu and K. Kimura; *Proceedings of the 1994 International Symposium on Parallel Architecture, Algorithms and Network* (edited), *IEEE Computer Society Press*. (1994), 452 pages.
- (9) D. F. Hsu, A. Rosenberg and D. Sotteau; *Interconnection Networks and Mapping and Scheduling Parallel Computations* (edited), American Mathematical Society, (1995), 342 pages.
- (10) D.-Z. Du and D. F. Hsu; *Combinatorial Network Theory* (edited), Kluwer Academic Publishers, (1995), 220 pages.
- (11) G. J. Li, S. Horiguchi, D. F. Hsu and B. Maggs; *Proceedings of the 1996 International Symposium on Parallel Architectures, Algorithms, and Networks* (edited), IEEE Computer Society Press (1996), 567 pages.
- (12) D. F. Hsu, M. Palis and D. S. L. Wei; *Interconnection Networks*, special issues in *International Journal of Foundation of Computer Science*, V.8, No. 2 and No. 3 (edited), World Scientific Publishers (1997), 251 pages.
- (13) F. Lai, B. Maggs and D. F. Hsu; *Proceedings of the 1997 International Symposium on Parallel Architectures, Algorithms, and Networks* (edited), IEEE Computer Society Press (1997), 503 Pages.
- (14) D. F. Hsu, M. Palis and D. S. L. Wei; *Interconnection Networks*, special issues in *International Journal of Foundation of Computer Science*, V.9, No.1 and No.2 (edited), World Scientific Publishers (1998), 248 pages.
- (15) A. Zomaya, D. F. Hsu, O. Ibarra, S. Horiguchi, D. Nassimi and M. Palis; *Proceedings of the 1999 International Symposium on Parallel Architectures, Algorithms, and Networks* (edited), IEEE Computer Society Press (1999), 442 pages.
- (16) W.Y, C. Chen, D. Z. Du, D. F. Hsu and H.P. Yap; *Combinatorics and Applications*, special issue in *Discrete Mathematics*, (edited), V.212, No.3, (2000), 106 pages.
- (17) H. Sudborough, B. Monien and D. F. Hsu; *Proceedings of the 2000 International Symposium on Parallel Architecture, Algorithms, and Networks*, (edited), IEEE Computer Society (2000), 302 pages.
- (18) D. F. Hsu, O. Ibarra, and R. P. Saldana; *Proceedings of the 2002 International Symposium on Parallel Architecture, Algorithms, and Networks*, (edited), IEEE Computer Society (2002), 368 pages.
- (19) D. F. Hsu, K. Hiraki, S. Shen and H. Sudborough; *Proceedings of the 2004 International Symposium on Parallel Architecture, Algorithms, and Networks*, (edited), IEEE Computer Society (2004), 645 pages.
- (20) W. Bein, F. Y. L. Chin, D. F. Hsu and M. L. Palis; *Proceedings of the 2005 International Symposium on Parallel Architecture, Algorithms, and Networks*, (edited), IEEE Computer Society Press (2005), 548 pages.
- (21) A. Zomaya, D. F. Hsu and S. Sahni; *Proceedings of the 2008 International Symposium on Parallel Architecture, Algorithms, and Networks*, (edited), IEEE Computer Society Press (2008), 296 pages.
- (22) W. Qu, K. Lin, Y. Shen, W. Shi, D. Frank Hsu., X. Jin, F. Lau, and J. Xu; *Proceeding of 2011 International Conference on Computational Science and Engineering*, (edited), CSE (2011). IEEE Computer Society Press.
- (23) N. Dean, D. F. Hsu, H. Shi, S. Q. Zheng, and X. D. Jia; *Proceedings of the 2012 International Symposium on Pervasive Systems, Algorithms, and Networks*, (edited), IEEE Computer Society Press.
- (24) D. F. Hsu, and D. Marinucci; *Advances in Cyber Security: Technology, Operations, and Experiences*. (edited), Fordham University Press, (2013), 257 pages.
- (25) D. F. Hsu, D. Marinucci, and J. Voas; Special Issues in Cybersecurity (edited) in *IEEE Computer Magazine*, IEEE Computer Society Press, (April Issue, 2015), pp. 15-55.

- (26) D. F. Hsu and D. Marinucci; Special Issue in Cybersecurity and Interconnection Network (edited) in *Journal of Interconnection Networks*, World Scientific Publishing Corp. (March Issue, 2017), 121 pages.
- (27) C. Lou, R. Klasing, G. Min, D. F. Hsu, et al; *Proceedings of the 14th International Symposium on Pervasive Systems, Algorithms, and Networks*, (edited), IEEE Computer Society Press, (2017), 534 pages.

(C) PAPERS IN JOURNALS AND BOOKS:

- (1) K. Murata and D. F. Hsu; Generalized prime elements in a compactly generated L-semigroup, *Proc. of Japan Academy*, V. 49. No. 2 (1973), pp. 134-139.
- (2) K. Murata and D. F. Hsu; Generalized prime elements in a compactly generated L-semigroup II, *Proc. of Japan Academy*, V. 49, No. 5 (1973), pp. 310-313.
- (3) D. F. Hsu; On isolated components of elements in a compactly generated L-semigroup, *Proc. of Japan Academy*, V. 50, No. 8 (1974), pp. 598-602.
- (4) D. F. Hsu and W. J. Leahey; On Diophantine equation $y^2 = x^3 + x^2 + 1$, *Rocky Mount, J. of Mathematics*, V. 6, No. 1 (1976), pp. 141-153.
- (5) D. F. Hsu; On prime ideals and primary decompositions in gamma-rings, *Mathematicae Japonicae*, 21 (1976), pp. 455-460.
- (6) F. Harary, D. F. Hsu and Z. Miller; The Biparticity of a graph, *Journal of Graph Theory*, V. 1 (1977), pp. 131-133.
- (7) F. Harary, D. F. Hsu and Z. Miller; The Bichromaticity of a lattice graph, *J. of the Australian Math. Society*, V. 23, (1977), pp. 354-359.
- (8) F. Harary, D. F. Hsu and Z. Miller; The bichromaticity of a tree, *The Theory and Application of Graphs*, (Y. Alavi, D. Lick, eds.), Springer, Berlin (1978), pp. 236-246.
- (9) G. J. Chang, D. F. Hsu and D. G. Rogers; Additive variations on a graceful theme: Some results in-harmonious and other related graphs, *Congressus Numerantium*, Vol. 32(1981), pp. 181-197.
- (10) D. F. Hsu; Harmonious labelings of Windmill graphs and related graphs, *J. of Graph Theory*, V.6 (1982), pp. 85-87.
- (11) G. S. Bloom and D. F. Hsu; On graceful digraphs and a problem in network addressing, *Congressus Numerantium* Vol. 35(1982), pp. 91-103.
- (12) D. F. Hsu and A. D. Keedwell; Generalized complete mappings, neofields, sequenceable groups and block designs, *Pacific J. of Mathematics*, (1984), pp. 317-332.
- (13) D. F. Hsu and A. D. Keedwell; Generalized complete mappings, neofields, sequenceable groups and block designs II, *Pacific J. of Mathematics*, 117(1985), pp. 291-312.
- (14) G. S. Bloom and D. F. Hsu; On graceful directed graphs, *SIAM Journal of Algebraic and Discrete Method*, No. 6 (1985), pp. 519-536.
- (15) D. Z. Du, D. F. Hsu and F. K. Hwang; Doubly linked ring network, *IEEE Transactions on Computers*, Vol. C 34 (1985), pp. 853-855.
- (16) G. S. Bloom and D. F. Hsu; On graceful directed graphs that are computational models of some algebraic systems, *Graphs and Computers*, (Y. Alavi, G. Chartrand, eds.) John Wiley and Sons, Inc., (1985), pp. 89-102.
- (17) D. F. Hsu; Distributed systems, parallel processing and the intelligent computer, *Thought*, V. 61, No. 243 (1986), pp. 401-411.
- (18) D. Z. Du, D. F. Hsu and K. J. Xu; Bounds on Guilatine ratio, *Congressus Numerantium*, Vol.58 (1987), pp. 313-319.
- (19) F. Harary and D. F. Hsu; On node-graceful graphs, *Computers and Mathematics with Applications*, V. 15, No. 4 (1988), pp. 291-298.
- (20) D. F. Hsu and Y. D. Lyuu; Lower bounds on sphere partitions in symmetric groups, *Congressus Numerantium*, V. 65 (1988), pp. 17-22.
- (21) D. F. Hsu and D. Z. Du; On Hamiltonian consecutive-d digraphs, *Combinatorics and Graph Theory*, (edited by Z. Skupien and M. Borowiecki), Banach Center Publications, Warsaw, Poland, Vol. 25, (1989), pp. 47-55.
- (22) D. Z. Du, D. F. Hsu, Q. Li and J. Xu; A combinatorial problem related to distributed loop networks, *Networks*, V. 20 (1990), pp. 173-180.
- (23) D. Z. Du and D. F. Hsu; Partitionable starters for twin prime power type, *Discrete Mathematics*, 87 (1991), pp. 23-28.

- (24) D. F. Hsu; Orthomorphisms and Near Orthomorphisms, *Graph Theory, Combinatorics, and Applications*, (Y. Alavi, eds.), John Wiley and Sons, Inc. (1991), pp. 667-679.
- (25) D. Z. Du, D. F. Hsu, F. K. Hwang and X. M. Zhang; The Hamiltonian property of generalized de Bruijn digraphs, *Journal of Combinatorial Theory, Series B*, V. 52 (1991), pp. 1-8.
- (26) D. F. Hsu and J. Shapiro; A census of tight one-optimal double loop networks, *Graph Theory, Combinatorics, Algorithms and Applications* (ed. by J. Alavi et al), SIAM, (1991), pp. 254-265.
- (27) D. F. Hsu and J. Shapiro; Bounds for the minimum number of transmission delays in double loop networks, *Journal of Combinatorics, Information and System Sciences*, V. 16, No. 1, (1991), pp. 55-62.
- (28) D. Z. Du, D. F. Hsu and G. W. Peck; Connectivity of consecutive-d digraphs, *Discrete Applied Mathematics*, 37/38, (1992), pp. 169-177.
- (29) P. Erdos and D. F. Hsu; Distributed loop networks with minimum transmission delay, *Theoretical Computer Science*, 100, (1992), pp. 223-241.
- (30) Y. Cheng, F. K. Hwang, I. F. Akyildiz and D.F. Hsu; Routing algorithms for double loop networks, *International Journal of Foundation of Computer Science*, (1992), pp. 323-331.
- (31) D. Z. Du, Y. D. Lyuu and D. F. Hsu; Line digraph iteration and connectivity analysis of deBruijn and Kautz graphs, *IEEE Transactions on Computers*, V. 42, No. 5 (1993), pp. 612-616.
- (32) D. Z. Du, D. F. Hsu and F. K. Hwang; The Hamiltonian properties of consecutive-d digraphs, *Mathematical and Computer Modeling*, 17 (1993), pp. 61-63.
- (33) K. Baclawski, D. F. Hsu and P. E. O'Neil; Designing computer networks to avoid partitioning, *Information Systems*, V. 18, No. 5 (1993), pp. 343-348.
- (34) M. D. Grammatikakis, D. F. Hsu and F. K. Hwang; Adaptive and oblivious algorithms for d-cube permutation routing, in *Algorithms and Computation*, LNCS #762 Springer-Verlag, (1993), pp. 167-175.
- (35) M. D. Grammatikakis, D. F. Hsu and F. K. Hwang; Universality of the D-cube, $D \leq 8$, *Parallel Computing: Trends and Applications* (edited by G. R. Joubert, D. Trystram, F. J. Peters and D. J. Evans) Elsevier Science Publishers (1994), pp. 517-520.
- (36) D. F. Hsu and X.-D. Jia; Extremal problems in the construction of distributed loop networks, *SIAM Journal on Discrete Mathematics*, V.7, No. 1 (1994), pp. 57-71.
- (37) D. F. Hsu and H. Shen; On the existence of perfect Mendelsohn designs without repeated blocks, *ARS Combinatoria*, 37 (1994), pp. 129-139.
- (38) D. F. Hsu and T. Luczak; Note on the k-diameter of k-regular k-connected graphs, *Discrete Mathematics*, 132 (1994), pp. 291-296.
- (39) D. F. Hsu; On container width and length in graphs, groups, and networks, *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, V. E77-A, No. 4, (1994), pp. 668-680.
- (40) D. F. Hsu and Y. D. Lyuu; A graph-theoretical study of transmission delay and fault tolerance, *Inter. Journal of Mini and Microcomputers*, Vol. 16, No. 1 (1994), pp. 35-42.
- (41) J. C. Bermond, A. Comellas and D. F. Hsu; Distributed loop networks: a survey, *Journal of Parallel and Distributed Computing*, 24, (1995), pp. 2-10.
- (42) D. F. Hsu, X. D. Hu and Y. Kajitani; On the shortest k-edge connected Steiner networks with rectilinear distance), *Minimax and Applications* (D.Z. Du and P.M. Pardalos eds.), Kluwer Academic Publishers (1995), pp. 119-127.
- (43) D. Z. Du, F. Cao and D. F. Hsu; De Bruijn digraphs, Kautz digraphs, and their generalizations, in *Combinatorial Network Theory*. (D. Z. Du and D. F. Hsu eds.), Kluwer Academic Publishers, (1995), pp. 65-106.
- (44) D. Z. Du, D. F. Hsu and D. J. Kleitman; Modification of consecutive-d digraphs, *Interconnection Networks and Mapping and Scheduling Parallel Computations, DIMACS Series in Discrete Mathematics and Theoretical Computer Science*, (AMS), V. 21, (1995), pp. 75-85.
- (45) D. R. Duh, G. H. Chen and D. F. Hsu; Combinatorial Properties of generalized hypercube graphs, *Information Processing Letters*, 57, (1996), pp. 41-45.
- (46) D. Z. Du, D. F. Hsu and Y. D. Lyuu; On the diameter vulnerability of Kautz digraphs, *Discrete Mathematics*, V. 151, (1996), pp. 81-85.

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