

Stanford



David Dill

Donald E. Knuth Professor in the School of Engineering and Professor, by courtesy, of
Electrical Engineering
Computer Science

CONTACT INFORMATION

- **Administrator**

Mary Jane Swenson - Administrative Associate

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Bio

BIO

Dill has interests in computational systems biology as well as the theory and application of formal verification techniques to system designs, which encompass hardware, protocols, and software. He has also done research in asynchronous circuit verification and synthesis, and in verification methods for hard real-time systems.

ACADEMIC APPOINTMENTS

- Professor, Computer Science
- Professor (By courtesy), Electrical Engineering
- Member, Bio-X

HONORS AND AWARDS

- Pioneer Award, Electronic Frontier Foundation
- Fellow, IEEE
- Fellow, ACM
- Member, National Academy of Engineering (2013)
- Fellow, American Academy of Arts and Sciences (2013)

PROFESSIONAL EDUCATION

- PhD, Carnegie Mellon (1987)

LINKS

- <http://verify.stanford.edu/dill>: <http://verify.stanford.edu/dill>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Computational methods for understanding regulatory circuits in cell biology

Teaching

COURSES

2016-17

- Departmental Lecture Series: CS 300 (Aut)

2015-16

- Advanced Topics in Formal Methods: CS 357 (Aut)
- Departmental Lecture Series: CS 300 (Aut)

2014-15

- Compilers: CS 143 (Spr)
- Departmental Lecture Series: CS 300 (Aut)
- Elections and Technology: CS 76N (Aut)
- Mathematical Foundations of Computing: CS 103 (Win)

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Informatics (Phd Program)

Publications

PUBLICATIONS

- **Systematic discovery of mutation-specific synthetic lethals by mining pan-cancer human primary tumor data.** *Nature communications*
Sinha, S., Thomas, D., Chan, S., Gao, Y., Brunen, D., Torabi, D., Reinisch, A., Hernandez, D., Chan, A., Rankin, E. B., Bernards, R., Majeti, R., Dill, et al
2017; 8: 15580-?
- **Cell cycle progression in *Caulobacter* requires a nucleoid-associated protein with high AT sequence recognition** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Ricci, D. P., Melfi, M. D., Lasker, K., Dill, D. L., McAdams, H. H., Shapiro, L.
2016; 113 (40): E5952-E5961
- **A Pharmacogenetic Discovery: Cystamine Protects Against Haloperidol-Induced Toxicity and Ischemic Brain Injury** *GENETICS*
Zhang, H., Zheng, M., Wu, M., Xu, D., Nishimura, T., Nishimura, Y., Giffard, R., Xiong, X., Xu, L. J., Clark, J. D., Sahbaie, P., Dill, D. L., Peltz, et al
2016; 203 (1): 599-?
- **The multiple PDZ domain protein Mpdz/MUPP1 regulates opioid tolerance and opioid-induced hyperalgesia** *BMC GENOMICS*
Donaldson, R., Sun, Y., Liang, D., Zheng, M., Sahbaie, P., Dill, D. L., Peltz, G., Buck, K. J., Clark, J. D.
2016; 17
- **CauloBrowser: A systems biology resource for *Caulobacter crescentus*.** *Nucleic acids research*
Lasker, K., Schrader, J. M., Men, Y., Marshik, T., Dill, D. L., McAdams, H. H., Shapiro, L.
2016; 44 (D1): D640-5
- **CauloBrowser: A systems biology resource for *Caulobacter crescentus*.** *Nucleic acids research*
Lasker, K., Schrader, J. M., Men, Y., Marshik, T., Dill, D. L., McAdams, H. H., Shapiro, L.
2016; 44 (D1): D640-5
- **Towards in vivo estimation of reaction kinetics using high-throughput metabolomics data: a maximum likelihood approach** *BMC SYSTEMS BIOLOGY*
Zhang, W., Kolte, R., Dill, D. L.
2015; 9
- **The role of Abcb5 alleles in susceptibility to haloperidol-induced toxicity in mice and humans.** *PLoS medicine*
Zheng, M., Zhang, H., Dill, D. L., Clark, J. D., Tu, S., Yablonovitch, A. L., Tan, M. H., Zhang, R., Rujescu, D., Wu, M., Tessarollo, L., Vieira, W., Gottesman, et al

2015; 12 (2)

- **The role of *abcb5* alleles in susceptibility to haloperidol-induced toxicity in mice and humans.** *PLoS medicine*
Zheng, M., Zhang, H., Dill, D. L., Clark, J. D., Tu, S., Yablonovitch, A. L., Tan, M. H., Zhang, R., Rujescu, D., Wu, M., Tessarollo, L., Vieira, W., Gottesman, et al
2015; 12 (2)
- **Mutant *WT1* is associated with DNA hypermethylation of *PRC2* targets in AML and responds to *EZH2* inhibition.** *Blood*
Sinha, S., Thomas, D., Yu, L., Gentles, A. J., Jung, N., Corces-Zimmerman, M. R., Chan, S. M., Reinisch, A., Feinberg, A. P., Dill, D. L., Majeti, R.
2015; 125 (2): 316-326
- **The global regulatory architecture of transcription during the *Caulobacter* cell cycle.** *PLoS genetics*
Zhou, B., Schrader, J. M., Kalogeraki, V. S., Abeliuk, E., Dinh, C. B., Pham, J. Q., Cui, Z. Z., Dill, D. L., McAdams, H. H., Shapiro, L.
2015; 11 (1)
- **The Global Regulatory Architecture of Transcription during the *Caulobacter* Cell Cycle.** *PLoS genetics*
Zhou, B., Schrader, J. M., Kalogeraki, V. S., Abeliuk, E., Dinh, C. B., Pham, J. Q., Cui, Z. Z., Dill, D. L., McAdams, H. H., Shapiro, L.
2015; 11 (1)
- **Towards in vivo estimation of reaction kinetics using high-throughput metabolomics data: a maximum likelihood approach.** *BMC systems biology*
Zhang, W., Kolte, R., Dill, D. L.
2015; 9: 66-?
- ***MYC* through *miR-17-92* Suppresses Specific Target Genes to Maintain Survival, Autonomous Proliferation, and a Neoplastic State.** *Cancer cell*
Li, Y., Choi, P. S., Casey, S. C., Dill, D. L., Felsher, D. W.
2014; 26 (2): 262-272
- **Automated identification of stratifying signatures in cellular subpopulations** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Bruggner, R. V., Bodenmiller, B., Dill, D. L., Tibshirani, R. J., Nolan, G. P.
2014; 111 (26): E2770-E2777
- **Automated identification of stratifying signatures in cellular subpopulations.** *Proceedings of the National Academy of Sciences of the United States of America*
Bruggner, R. V., Bodenmiller, B., Dill, D. L., Tibshirani, R. J., Nolan, G. P.
2014; 111 (26): E2770-7
- **Mining TCGA data using Boolean implications.** *PloS one*
Sinha, S., Tsang, E. K., Zeng, H., Meister, M., Dill, D. L.
2014; 9 (7)
- **Mining TCGA Data Using Boolean Implications.** *PloS one*
Sinha, S., Tsang, E. K., Zeng, H., Meister, M., Dill, D. L.
2014; 9 (7)
- **Liquid chromatography/mass spectrometry methods for measuring dipeptide abundance in non-small-cell lung cancer.** *Rapid communications in mass spectrometry : RCM*
Wu, M., Xu, Y., Fitch, W. L., Zheng, M., Merritt, R. E., Shrager, J. B., Zhang, W., Dill, D. L., Peltz, G., Hoang, C. D.
2013; 27 (18): 2091-2098
- **Identification of drug targets by chemogenomic and metabolomic profiling in yeast** *PHARMACOGENETICS AND GENOMICS*
Wu, M., Zheng, M., Zhang, W., Suresh, S., Schlecht, U., Fitch, W. L., Aronova, S., Baumann, S., Davis, R., St Onge, R., Dill, D. L., Peltz, G.
2012; 22 (12): 877-886
- **Computational genetic discoveries that could improve perioperative medicine** *CURRENT OPINION IN ANESTHESIOLOGY*
Zheng, M., Dill, D., Clark, J. D., Peltz, G.
2012; 25 (4): 428-433
- **Gene Expression Commons: An Open Platform for Absolute Gene Expression Profiling** *PLOS ONE*
Seita, J., Sahoo, D., Rossi, D. J., Bhattacharya, D., Serwold, T., Inlay, M. A., Ehrlich, L. I., Fathman, J. W., Dill, D. L., Weissman, I. L.
2012; 7 (7)
- ***Cd14* SNPs regulate the innate immune response** *MOLECULAR IMMUNOLOGY*

- Liu, H., Hu, Y., Zheng, M., Suhoski, M. M., Engleman, E. G., Dill, D. L., Hudnall, M., Wang, J., Spolski, R., Leonard, W. J., Peltz, G.
2012; 51 (2): 112-127
- **A better prognosis for genetic association studies in mice** *TRENDS IN GENETICS*
Zheng, M., Dill, D., Peltz, G.
2012; 28 (2): 62-69
 - **Cd14 SNPs regulate the innate immune response** *Molecular Immunology*
Lu, H., Hu, Y., Zheng, M., Engleman, E., Dill, D., Hudnall, M.
2012; 2 (51): 112-127
 - **Computational genetic discoveries that could improve perioperative medicine** *Current Opinion in Anesthesiology*
Zheng, M., Dill, D., Clark, J., Peltz, G.
2012
 - **Gene Expression Commons: an open platform for absolute gene expression profiling** *PLoS One*
Seita, J., Sahoo, D., Rossi, D., Bhattacharya, D., Serwold, T., Inlay, M., Dill, D.
2012; 7
 - **A better prognosis for genetic association studies in mice** *Trends in Genetics*
Zheng, M., Dill, D., Peltz, G.
2012; 2 (28): 62-69
 - **Identification of drug targets by chemogenomic and metabolomic profiling in yeast.** *Pharmacogenetic Genomics*
Wu, M., Zheng, M., Zhang, W., Suresh, S., Schlecht, U., Fitch, W. L., Dill, D.
2012
 - **Next-Generation Computational Genetic Analysis: Multiple Complement Alleles Control Survival after Candida albicans Infection** *INFECTION AND IMMUNITY*
Peltz, G., Zaas, A. K., Zheng, M., Solis, N. V., Zhang, M. X., Liu, H., Hu, Y., Boxx, G. M., Phan, Q. T., Dill, D., Filler, S. G.
2011; 79 (11): 4472-4479
 - **Are Cells Asynchronous Circuits? (Invited Talk)** *12th International Conference on Verification, Model Checking, and Abstract Interpretation*
Dill, D. L.
SPRINGER-VERLAG BERLIN.2011: 1-1
 - **Next-generation computational genetic analysis: Multiple complement alleles control survival after candida albicans infection** *Infection and Immunity*
Peltz, G., Zaas, A., K., Zheng, M., Solis, N., V., Zhang, M., X., Liu, H., H., Dill, D.
2011; 11 (79): 4472-4479
 - **The Role of Interleukin-1 in Wound Biology. Part II: In Vivo and Human Translational Studies** *ANESTHESIA AND ANALGESIA*
Hu, Y., Liang, D., Li, X., Liu, H., Zhang, X., Zheng, M., Dill, D., Shi, X., Qiao, Y., Yeomans, D., Carvalho, B., Angst, M. S., Clark, et al
2010; 111 (6): 1534-1542
 - **The Role of Interleukin-1 in Wound Biology. Part I: Murine In Silico and In Vitro Experimental Analysis** *ANESTHESIA AND ANALGESIA*
Hu, Y., Liang, D., Li, X., Liu, H., Zhang, X., Zheng, M., Dill, D., Shi, X., Qiao, Y., Yeomans, D., Carvalho, B., Angst, M. S., Clark, et al
2010; 111 (6): 1525-1533
 - **MiDReG: A method of mining developmentally regulated genes using Boolean implications** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Sahoo, D., Seita, J., Bhattacharya, D., Inlay, M. A., Weissman, I. L., Plevritis, S. K., Dill, D. L.
2010; 107 (13): 5732-5737
 - **Timing Robustness in the Budding and Fission Yeast Cell Cycles** *PLOS ONE*
Mangla, K., Dill, D. L., Horowitz, M. A.
2010; 5 (2)
 - **The role of interleukin-1 in wound biology. part i: murine in silico and in vitro experimental analysis** *Anesthesia & Analgesia*
Hu, Y., Liang, D., Li, X., Liu, H., Zhang, X., Zheng, M., Dill, D.
2010; 6 (111): 1525-1533

- **Timing robustness in the budding and fission yeast cell cycles** *PLoS ONE*
Mangla, K., Dill, D. L., Horowitz, M. A.
2010; 2 (5): e8906
- **The role of interleukin-1 in wound biology. part ii: in vivo and human translational studies** *Anesthesia & nalgesia*
Hu, Y., Liang, D., Li, X., Liu, H., Zhang, X., Zheng, M., Dill, D.
2010; 6 (111): 1534–1542
- **Gene expression changes induced by genistein in the prostate cancer cell line Incap** *Open Prostate Cancer J*
Bhamre, S., Sahoo, D., Tibshirani, R., Dill, D. L., Brooks, J., D
2010; 3: 86–98
- **Ly6d marks the earliest stage of B-cell specification and identifies the branchpoint between B-cell and T-cell development** *GENES & DEVELOPMENT*
Inlay, M. A., Bhattacharya, D., Sahoo, D., Serwold, T., Seita, J., Karsunky, H., Plevritis, S. K., Dill, D. L., Weissman, I. L.
2009; 23 (20): 2376–2381
- **Temporal Changes in Gene Expression Induced by Sulforaphane in Human Prostate Cancer Cells** *PROSTATE*
Bhamre, S., Sahoo, D., Tibshirani, R., Dill, D. L., Brooks, J. D.
2009; 69 (2): 181–190
- **Temporal changes in gene expression induced by sulforaphane in human prostate cancer cells** *The Prostate*
Bhamre, S., Sahoo, D., Tibshirani, R., Dill, D., Brooks, J.
2009; 2 (69): 181–90
- **Ly6d marks the earliest stage of b-cell specification and identifies the branchpoint between b-cell and t-cell development** *Genes and Development*
Inlay, Matthew, A., Bhattacharya, D., Sahoo, D., Serwold, T., Seita, J., Karsunky, H., Dill, D.
2009; 20 (23): 2376–2381
- **EXE: Automatically Generating Inputs of Death** *13th ACM Conference on Computer and Communications Security*
Cadair, C., Ganesh, V., Pawlowski, P. M., Dill, D. L., Engler, D. R.
ASSOC COMPUTING MACHINERY.2008
- **Point/Counterpoint The U. S. Should Ban Paperless Electronic Voting Machines** *COMMUNICATIONS OF THE ACM*
Dill, D. L.
2008; 51 (10): 29–30
- **Architecture and inherent robustness of a bacterial cell-cycle control system** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Shen, X., Collier, J., Dill, D., Shapiro, L., Horowitz, M., McAdams, H. H.
2008; 105 (32): 11340–11345
- **Genomic and proteomic analysis reveals a threshold level of MYC required for tumor maintenance** *CANCER RESEARCH*
Shachaf, C. M., Gentles, A. J., Elchuri, S., Sahoo, D., Soen, Y., Sharpe, O., Perez, O. D., Chang, M., Mitchel, D., Robinson, W. H., Dill, D., Nolan, G. P., Plevritis, et al
2008; 68 (13): 5132–5142
- **Combined Analysis of Murine and Human Microarrays and ChIP Analysis Reveals Genes Associated with the Ability of MYC To Maintain Tumorigenesis** *PLOS GENETICS*
Wu, C., Sahoo, D., Arvanitis, C., Bradon, N., Dill, D. L., Felsher, D. W.
2008; 4 (6)
- **Boolean implication networks derived from large scale, whole genome microarray datasets** *GENOME BIOLOGY*
Sahoo, D., Dill, D. L., Gentles, A. J., Tibshirani, R., Plevritis, S. K.
2008; 9 (10)
- **Boolean implication networks derived from large scale, whole genome microarray datasets** *Genome Biology*
Sahoo, D., Dill, D. L., Gentles, A., J., Tibshirani, R., Plevritis, S., K.
2008; 10 (9): R157
- **Architecture and inherent robustness of a bacterial cell-cycle control system** *Proceedings of the National Academy of Sciences*

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- Shen, X., Collier, J., Dill, D., L., Shapiro, L., Horowitz, M., McAdams, H., H.
2008; 32 (105): 11340–11345
- **EXE: automatically generating inputs of death.** *ACM Transactions on Information and System Security*
Cadar, C., Ganesh, V., Pawlowski, Peter, M., Dill, David, L., Engler, Dawson, R.
2008; 2 (12)
 - **Combined analysis of murine and human microarrays and chip analysis reveals genes associated with the ability of myc to maintain tumorigenesis.** *PLoS Genetics*
Wu, C., H., Sahoo, D., Arvanitis, C., Bradon, N., Dill, D., L., Felsher, D., W.
2008; 6 (4)
 - **Genomic and proteomic analysis reveals a threshold level of myc required for tumor maintenance** *Cancer Research*
Shachaf, C., M., Gentles, A., J., Elchuri, S., Sahoo, D., Soen, Y., Sharpe, O., Dill, D.
2008; 13 (68): 5132
 - **Automatic Formal Verification of Block Cipher Implementations** *8th International Conference on Formal Methods in Computer-Aided Design*
Smith, E. W., Dill, D. L.
IEEE.2008: 45–51
 - **A retrospective on Mur phi** *Symposium on 25 Years of Model Checking (25MC)*
Dill, D. L.
SPRINGER-VERLAG BERLIN.2008: 77–88
 - **Extracting binary signals from microarray time-course data** *NUCLEIC ACIDS RESEARCH*
Sahoo, D., Dill, D. L., Tibshirani, R., Plevritis, S. K.
2007; 35 (11): 3705–3712
 - **A decision procedure for bit-vectors and arrays** *19th International Conference on Computer Aided Verification*
Ganesh, V., Dill, D. L.
SPRINGER-VERLAG BERLIN.2007: 519–531
 - **A retrospective on mur#** *In 25 years of Model Checking, volume 4925 of Lecture Notes in Computer Science*
Dill, David, L.
2007: 1
 - **Extracting boolean signals from microarray time course data.** *Nucleic Acids Research*
Sahoo, D., Dill, David, L., Tibshirani, R., Plevritis, Sylvia, K.
2007; 11 (35): 3705–3712
 - **The Pathalyzer: A tool for analysis of signal transduction pathways** *Joint Annual Workshop on Systems Biology and on Regulatory Genomics*
Dill, D. L., Knapp, M. A., Gage, P., Talcott, C., Laderoute, K., Lincoln, P.
SPRINGER-VERLAG BERLIN.2007: 11–22
 - **A refinement method for validity checking of quantified first-order formulas in hardware verification** *6th International Conference on Formal Methods in Computer Aided Design*
Abu-Haimed, H., Dill, D. L., Berezin, S.
IEEE COMPUTER SOC.2006: 145–152
 - **Multiple representations of biological processes.** *Transactions on Computational Systems Biology*
Talcott, C., Dill, David, L.
2006: 221–245
 - **Multiple representations of biological processes** *4th International Conference on Computational Methods in Systems Biology*
Talcott, C., Dill, D. L.
SPRINGER-VERLAG BERLIN.2006: 221–245
 - **The pathway logic assistant**
Talcott, C., Dill, David, L.
2005

- **Evaluation of voting systems.** *Commun. ACM*
Vora, P., L., Adida, B., Bucholz, R., Chaum, D., Dill, D., L., Jefferson, D.
2004; 11 (47): 144
- **A partitioning methodology for BDD-based verification** *5th International Conference on Formal Methods in Computer-Aided Design (FMCAD)*
Sahoo, D., Iyer, S., Jain, J., Stangier, C., Narayan, A., Dill, D. L., Emerson, E. A.
SPRINGER-VERLAG BERLIN.2004: 399–413
- **A practical approach to partial functions in CVC Lite.**
Barrett, C., Berezin, S., Shikanian, I., Chechik, M., Gurfinkel, A., Dill, David, L.
2004
- **A partitioning methodology for bdd-based verification**
Sahoo, D., Iyer, Subramanian, K., Jain, J., Stangier, C., Narayan, A., Dill, David, L.
2004
- **Guest editors' introduction: E-voting security.** *IEEE Security and Privacy*
Dill, David, L., Rubin, Aviel, D.
2004; 1 (2)
- **A proof-producing boolean search engine.**
Barrett, C., Berezin, S., Dill, David, L.
2003
- **Using formal specifications for functional validation of hardware designs** *IEEE DESIGN & TEST OF COMPUTERS*
Shimizu, K., Dill, D. L.
2002; 19 (4): 96-106
- **Efficient algorithms for approximate time separation of events** *SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES*
Chakraborty, S., Dill, D. L., Yun, K. Y.
2002; 27: 129-162
- **Formal verification of out-of-order execution with incremental flushing** *FORMAL METHODS IN SYSTEM DESIGN*
Jones, R. B., Skakkebaek, J. U., Dill, D. L.
2002; 20 (2): 139-158
- **Counter-example based predicate discovery in predicate abstraction** *4th International Conference on Formal Methods in Computer-Aided Design (FMCAD 2002)*
Das, S., Dill, D. L.
SPRINGER-VERLAG BERLIN.2002: 19–32
- **CVC: a Cooperating Validity Checker.**
Stump, A., Barrett, C., Dill, D.
2002
- **Checking Satisfiability of First-Order Formulas by Incremental Translation to SAT.**
Barrett, Clark, W., Dill, David, L., Stump, A.
edited by Brinksma, E., Larsen, K. G.
2002
- **Using formal specifications for functional validation of hardware designs** *IEEE Design & Test of Computers*
Shimizu, K., Dill, David, L.
2002; 4 (19): 96–106
- **Deriving a simulation input generator and a coverage metric from a formal specification** *39th Design Automation Conference*
Shimizu, K., Dill, D. L.
ASSOC COMPUTING MACHINERY.2002: 801–806
- **Deciding Presburger arithmetic by model checking and comparisons with other methods** *4th International Conference on Formal Methods in Computer-Aided Design (FMCAD 2002)*

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- Ganesh, V., Berezin, S., Dill, D. L.
SPRINGER-VERLAG BERLIN.2002: 171–186
- **Parallelizing the Mur phi verifier** *9th International Conference on Computer-Aided Verification (CAV 97)*
Stern, U., Dill, D. L.
SPRINGER.2001: 117–29
 - **A simple method for extracting models from protocol code** *28th Annual International Symposium on Computer Architecture*
Lie, D., Chou, A., Engler, D., Dill, D. L.
IEEE COMPUTER SOC.2001: 192–203
 - **A decision procedure for an extensional theory of arrays** *16th Annual IEEE Symposium on Logic in Computer Science*
Stump, A., Barrett, C. W., Dill, D. L., LEVITT, J.
IEEE COMPUTER SOC.2001: 29–37
 - **Successive approximation of abstract transition relations** *16th Annual IEEE Symposium on Logic in Computer Science*
Das, S., Dill, D. L.
IEEE COMPUTER SOC.2001: 51–58
 - **Automatic checking of aggregation abstractions through state enumeration** *IEEE TRANSACTIONS ON COMPUTER-AIDED DESIGN OF INTEGRATED CIRCUITS AND SYSTEMS*
Park, S., Das, S., Dill, D. L.
2000; 19 (10): 1202-1210
 - **Monitor-based formal specification of PCI** *3rd International Conference on Formal Methods in Computer-Aided Design*
Shimizu, K., Dill, D. L., Hu, A. J.
SPRINGER-VERLAG BERLIN.2000: 335–353
 - **Reliable verification using symbolic simulation with scalar values** *37th Annual Design Automation Conference (DAC)*
Wilson, C., Dill, D. L.
ASSOC COMPUTING MACHINERY.2000: 124–129
 - **Counterexample-guided choice of projections in approximate symbolic model checking** *IEEE/ACM International Conference on Computer Aided Design (ICCAD-2000)*
Govindaraju, S. G., Dill, D. L.
IEEE.2000: 115–119
 - **Java model checking** *15th IEEE International Conference on Automated Software Engineering (ASE 2000)*
Park, D. Y., Stern, U., Skakkebaek, J. U., Dill, D. L.
IEEE COMPUTER SOC.2000: 253–256
 - **Symbolic simulation with approximate values** *3rd International Conference on Formal Methods in Computer-Aided Design*
Wilson, C., Dill, D. L., Bryant, R. E.
SPRINGER-VERLAG BERLIN.2000: 470–485
 - **A framework for cooperating decision procedures** *17th International Conference on Automated Deduction (CADE-17)*
Barrett, C. W., Dill, D. L., Stump, A.
SPRINGER-VERLAG BERLIN.2000: 79–98
 - **Timing analysis of asynchronous systems using time separation of events** *IEEE TRANSACTIONS ON COMPUTER-AIDED DESIGN OF INTEGRATED CIRCUITS AND SYSTEMS*
Chakraborty, S. A., Yun, K. Y., Dill, D. L.
1999; 18 (8): 1061-1076
 - **Verifying systems with replicated components in Mur phi** *FORMAL METHODS IN SYSTEM DESIGN*
Ip, C. N., Dill, D. L.
1999; 14 (3): 273-310
 - **Automatic synthesis of extended burst-mode circuits: Part I (specification and hazard-free implementations)** *IEEE TRANSACTIONS ON COMPUTER-AIDED DESIGN OF INTEGRATED CIRCUITS AND SYSTEMS*
Yun, K. Y., Dill, D. L.

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- 1999; 18 (2): 101-117
- **An executable specification and verifier for relaxed memory order** *IEEE TRANSACTIONS ON COMPUTERS*
Park, S. J., Dill, D. L.
1999; 48 (2): 227-235
 - **Min-max timing analysis and an application to asynchronous circuits** *PROCEEDINGS OF THE IEEE*
Chakraborty, S., Dill, D. L., Yun, K. Y.
1999; 87 (2): 332-346
 - **Automatic synthesis of extended burst-mode circuits: Part II (automatic synthesis)** *IEEE TRANSACTIONS ON COMPUTER-AIDED DESIGN OF INTEGRATED CIRCUITS AND SYSTEMS*
Yun, K. Y., Dill, D. L.
1999; 18 (2): 118-132
 - **Timing analysis of asynchronous systems using time separation of events.** *IEEE Transactions on Computer-Aided Design*
Chakraborty, S., Yun, Kenneth, Y., Dill, David, L.
1999; 8 (18): 1061-1076
 - **Experience with predicate abstraction.**
Das, S., Dill, David, L., Park, S.
1999
 - **Automatic synthesis of extended burst-mode circuits: Part I (specification and hazard-free implementations).** *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems*
Yun, Kenneth, Y., Dill, David, L.
1999; 2 (18): 101-117
 - **Improved approximate reachability using auxiliary state variables.**
Govindaraju, Shankar, G., Dill, David, L., Bergmann, Jules, P.
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 - **Automatic synthesis of extended burst-mode circuits: Part II (specification and hazard-free implementations).** *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems*
Yun, Kenneth, Y., Dill, David, L.
1999; 2 (18): 118-132
 - **An executable specification, analyzer and verifier for RMO (relaxed memory order).** *IEEE Transactions on Computers*
Park, S., Dill, David, L.
1999; 2 (48): 227-335
 - **Verifying systems with replicated components in Mur#.** *Formal Methods in System Design*
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