

Jeffrey J. Rodriguez, Ph.D.

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Overview

Prof. Rodriguez has extensive experience in the field of electrical and computer engineering. His areas of expertise include image/video/signal processing and analysis, biomedical data analysis, communication systems, microprocessor systems, electric circuits, and related software development. At the University of Arizona, he is a faculty member in the Dept. of Electrical and Computer Engineering and Director of the Signal and Image Laboratory (SaIL).

He served as Co-Director of Connection One, a National Science Foundation multi-university research center on communication circuits and systems. In addition to more than 150 publications in the field, he has been very active in professional activities as a Senior Member of the Institute of Electrical and Electronics Engineers (IEEE) Signal Processing Society.

Prof. Rodriguez served as General Chair of the 2016 IEEE Southwest Symp. on Image Analysis and Interpretation (SSIAI). In addition, during 2005–2011 he served on the IEEE Signal Processing Society Technical Committee on Image, Video, and Multidimensional Signal Processing. He served as General Chair of the 2007 IEEE Intl. Conf. on Image Processing (ICIP), as well as General Chair of SSIAI 2014, General Chair of SSMSD 2003, General Chair of SSIAI 1998, and Vice Chair of SSIAI 2004, as well as positions on numerous other professional committees. From 1996 to 2000, Prof. Rodriguez was Associate Editor of the journal, *IEEE Transactions on Image Processing*.

Expertise

Image processing & analysis (filtering, enhancement, segmentation, pattern recognition, restoration, super-resolution, JPEG, watermarking, inpainting, etc.)

Video processing & analysis (filtering, enhancement, segmentation, pattern recognition, motion estimation, tracking, MPEG, watermarking, etc.)

Signal processing & analysis (speech, audio, filtering, Fourier analysis, etc.)

Biomedical data analysis

Computational photography (deblurring, enhancement, high dynamic range imaging, super-resolution, etc.)

Communication systems (cellular communication systems, signal conditioning, data compression, image & video communication, etc.)

Microprocessor systems (architecture, interfacing, programming, GPUs, etc.)

Electric circuits (analog and digital)

Software analysis (C, C++, MATLAB, etc.)

Education

Ph.D., The University of Texas at Austin, Electrical Engineering, May 1990

S.M., Massachusetts Institute of Technology, Electrical Engineering, June 1986

B.S., The University of Texas at Austin, Electrical Engineering, May 1984

Employment

- 1990–present: The University of Arizona, Dept. of Electrical and Computer Engineering
 - 1997–present, Associate Professor of Electrical and Computer Engineering, with tenure
 - 2000–2003, 2005–2016: Director of ECE Graduate Studies
 - 2002–present: Faculty member in the Biomedical Engineering Graduate Interdisciplinary Program
 - 2009–2014, Director of Image Analysis, Cancer Imaging Shared Services, Arizona Cancer Center
 - 2003–2008: Co-Director of Connection One, a National Science Foundation industry/university cooperative research center for communication circuits and systems
 - 1990–1997: Assistant Professor of Electrical and Computer Engineering
- 1986–1990: The University of Texas at Austin, Graduate Research Assistant in Dept. of Electrical Engineering
- 1985: Massachusetts Institute of Technology, Graduate Research Assistant in Dept. of Electrical Engineering
- 1982–1985 (summers): IBM Corp. (Austin, Texas) – hardware design and system programming
- 1980–1981 (summers): Texas Instruments, Inc. (Austin, Texas) – software quality assurance

Consulting

Deposed 10 times. Testified in court 4 times.

Inter Partes Review of Patent No. 8,508,751

Court: U.S. Patent and Trademark Office, Patent Trial and Appeal Board

Dates: April 2018 – present

Client: Pathway Innovations and Technologies, Inc. (patent owner)

Petitioners: AVer Information Inc. and iPEVO, Inc.

San Diego IP Law Group LLP

Technology: Document cameras and video processing

Deposed Sept. 20, 2018

In the Matter of Certain Digital Cable and Satellite Products, Set-Top Boxes, Gateways, and Components Thereof, Inv. No. 337-TA-1049

Court: U.S. International Trade Commission

Dates: July 2017 – Nov. 2017

Client: ARRIS International plc; ARRIS Group, Inc.; ARRIS Technology, Inc.; ARRIS Enterprises LLC; ARRIS Solutions, Inc.; ARRIS Global Ltd. (formerly Pace Ltd.); Pace Americas, LLC; Pace Americas Holdings, Inc.; Pace USA LLC; and Pace Americas Investments, LLC (resp.)

Complainant: Sony Corporation and Sony Electronics Inc.

Counsel: Fish and Richardson P.C.

Technology: Video receiver and video processing

Inter Partes Review of Patent No. 7,720,294

Court: U.S. Patent and Trademark Office, Patent Trial and Appeal Board

Dates: June 2017 – Sept. 2017

Client: Broadcom Corp. (patent owner)

Petitioner: Advanced Micro Devices, Inc.

Counsel: Swanson & Bratschun, LLC

Technology: Video decoding

Inter Partes Review of Patent No. 7,472,151

Court: U.S. Patent and Trademark Office, Patent Trial and Appeal Board

Dates: June 2017 – Sept. 2017

Client: Broadcom Corp. (patent owner)

Petitioner: Advanced Micro Devices, Inc.

Counsel: Swanson & Bratschun, LLC

Technology: Video decoding

In the Matter of Certain Document Cameras and Software for Use Therewith, Inv. No. 337-TA-1045

Court: U.S. International Trade Commission

Dates: May 2017 – Nov. 2017

Client: Pathway Innovations and Technologies, Inc. (compl.)

Respondents: iPEVO, Inc. AVer Information, Inc. and Lumens Integration, Inc.

Counsel: San Diego IP Law Group LLP

Technology: Document cameras and video processing

Deposed Oct. 2017

Inter Partes Review of Patent No. 8,032,919

Court: U.S. Patent and Trademark Office, Patent Trial and Appeal Board

Dates: May 2017 – Nov. 2017

Client: ARRIS International plc, ARRIS Group, Inc., ARRIS Technology, Inc., ARRIS Enterprises, LLC, ARRIS Solutions, Inc., ARRIS Global Ltd. and ARRIS U.S. Holdings, Inc. (pet.)

Patent owner: Sony Corporation

Counsel: Fish & Richardson

Technology: Video receiver and video processing

Inter Partes Review of Patent No. 6,467,093

Court: U.S. Patent and Trademark Office, Patent Trial and Appeal Board

Dates: May 2017 – Nov. 2017

Client: ARRIS International plc, ARRIS Group, Inc., ARRIS Technology, Inc., ARRIS Enterprises, LLC, ARRIS Solutions, Inc., ARRIS Global Ltd. and ARRIS U.S. Holdings, Inc. (pet.)

Patent owner: Sony Corporation

Counsel: Fish & Richardson

Technology: Video receiver and video processing

Sony Corporation v. ARRIS Global Ltd. and Pace Americas, LLC

(formerly *Sony Corporation v. Pace plc and Pace Americas, LLC*)

Court: U.S. District Court for the District of Delaware

Dates: March 2017 – Nov. 2017

Client: Pace plc and Pace Americas, LLC (bought by ARRIS Group) (def.)

Counsel: Fish & Richardson

Technology: Video communication and encryption

Inter Partes Review of Patent No. 8,147,332

Court: U.S. Patent and Trademark Office, Patent Trial and Appeal Board
Dates: March 2017 – June 2017
Client: Broadcom Corp. (patent owner)
Petitioner: Sony Corporation
Counsel: Swanson & Bratschun, LLC
Technology: Video game systems

Broadcom Corp. et al. v. Sony Corp. et al., Case No. 16-cv-1052-JVS-JCG

Court: U.S. District Court for the Central District of California, Santa Ana Division
Dates: Feb. 2016 – June 2017
Client: Broadcom Limited (pl.)
Counsel: Thompson & Knight LLP
Technology: Video processing systems, video game systems

Reckitt Benckiser LLC v. Amneal Pharmaceuticals LLC, et al., Civil Action No. 15-2155

(RMB)(JS)(Consolidated)
Court: U.S. District Court for the District of New Jersey
Dates: March 2017 – May 2017
Client: Dr. Reddy's Laboratories (def.)
Counsel: Budd Larner P.C.
Technology: Image analysis of pharmaceutical tablets
Deposed May 2017
Testified at bench trial, May 2017

eWatch v. Apple, Inc., et al., Case No. 2:13-cv-01061

Court: U.S. District Court for the Eastern District of Texas
Dates: Nov. 2016 – Jan. 2017
Client: ZTE (USA), Inc. (def.)
Counsel: Pillsbury Winthrop Shaw Pittman LLP
Technology: Cellular camera phones, image transmission over wireless network

Inter Partes Review of Patent No. 7,085,123

Court: U.S. Patent and Trademark Office, Patent Trial and Appeal Board
Dates: Mar. 2016 – Dec. 2016
Client: Mazda Motor Corp. (pet.)
Patent owner: Power Regeneration LLC
Counsel: DLA Piper LLP
Technology: Power supply circuits

Inter Partes Review of Patent No. 7,558,472

Court: U.S. Patent and Trademark Office, Patent Trial and Appeal Board
Dates: Jun. 2016 – Nov. 2016
Client: Samsung Electronics Co., Ltd., Samsung Electronics America, Inc., and Samsung Telecommunications America, LLC (pet.)
Patent owner: TiVo Inc.
Counsel: Fish & Richardson P.C.
Technology: Video processing hardware and software

Inter Partes Review of Patent No. 8,457,476

Court: U.S. Patent and Trademark Office, Patent Trial and Appeal Board

Dates: Jun. 2016 – Nov. 2016

Client: Samsung Electronics Co., Ltd., Samsung Electronics America, Inc., and Samsung Telecommunications America, LLC (pet.)

Patent owner: TiVo Inc.

Counsel: Fish & Richardson P.C.

Technology: Video processing hardware and software

Saint Lawrence Communications LLC v. HTC Corporation and HTC America, Inc., Case No. 2:15-cv-00919

Court: U.S. District Court, Eastern District of Texas, Marshall Division

Dates: Apr. 2016 – Nov. 2016

Client: HTC Corporation and HTC America, Inc. (def.)

Counsel: Cooley LLP

Technology: Speech and audio compression

In the Matter of Certain Computing or Graphics Systems, Components Thereof, and Vehicles Containing Same, ITC Inv. No. 337-TA-984

Court: U.S. International Trade Commission

Dates: Feb. 2016 – Nov. 2016

Client: Bayerische Motoren Werke AG, BMW of North America, LLC, BMW Manufacturing Co., LLC, Renesas Electronics Corporation, and Renesas Electronics America Inc. (resp.)

Complainant: Advanced Silicon Technologies Inc.

Counsel: DLA Piper LLP (for BMW), Foley & Lardner LLP (for Renesas)

Technology: Memory controllers for data processing systems

TiVo Inc. v. Samsung Electronics Co., Ltd., Samsung Electronics America, Inc., and Samsung Telecommunications America, LLC

Court: U.S. District Court for the Eastern District of Texas, Marshall Division

Dates: Dec. 2015 – Mar. 2016

Client: Samsung Electronics Co., Ltd., Samsung Electronics America, Inc., and Samsung Telecommunications America, LLC (def.)

Counsel: Fish & Richardson

Technology: Video processing hardware and software

Civolution B.V. v. Doremi Labs, Inc., No. 2:14-CV-00962-JAK-RZ

Court: U.S. District Court, Central District of California, Western Division

Dates: Dec. 2014 – Jan. 2016

Client: Doremi Labs, Inc. (def.)

Counsel: Gibson, Dunn & Crutcher LLP

Technology: Video watermarking to detect cinematic copies

Deposed May 2015

e-Watch, Inc. et al. v. LG Electronics et al., No. 2:13-cv-01064

Court: U.S. District Court, Eastern District of Texas, Marshall Division

Dates: Feb. 2015 – Oct. 2015

Client: LG Electronics, Inc., LG Electronics U.S.A., Inc., LG Electronics Mobilecomm U.S.A., Inc. (def.)

Counsel: Fish & Richardson P.C.

Technology: Cellular camera phone, image transmission over wireless network

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