

Name: Jelena Mirkovic

Affiliation and current position: USC/ISI, Research Associate Professor

Relevant qualifications: I've been involved in cybersecurity research for 20 years, with primary focus on malware, DDoS, passwords and privacy. I have been working on DNS security research for around two years.

Motivation for membership in the RSSAC Caucus: My research, joint with Wes Hardaker and John Heidemann, tries to make DNS servers more robust to DDoS. Within this we have come across many anomalous DNS resolver behaviors. We have thus expanded my research interests and are working on understanding causes of anomalous resolver behavior.

While I have not participated in IETF, ICANN, DNS-OARC and similar, Wes and John have been very active in DNS community. Due to my current research interests I would like to join RSSAC and participate in the work party on Studying Modern Resolver Behaviors.

I have basic knowledge of DNS protocol and closer knowledge of DNS resolver dynamics as seen at B-root, since this is data I have been working with in the past year.

Indication of availability: about 1h weekly for telecons/emails and about 4h weekly for research on issues related to RSSAC community. I am available for RSSAC Caucus meetings and willing to participate in RSSAC Caucus working group.

Formal roles (if any) and interests in the work of RSSAC: Employed by USC/ISI, which operates B-root. Working closely with B-root operators on improving resilience of B-root to DDoS attacks.

Links where appropriate: Here is the link to my CV, if needed:
<https://www.isi.edu/~mirkovic/cv.html>