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دکتر حمیدرضا اشرفی، PhD، مهندسی عمران

عضو هیأت علمی تمام وقت و رسمی دانشگاه

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۱. اطّلاعات شخصی

۱.۱. تولد: ۱۳۳۶، ایران

۱.۲. آدرس‌های ایمیل‌ها:

mr.hamid.ashrafii@gmail.com
h_r_ashrafi@yahoo.com
h.r.ashrafi@razi.ac.ir

۲. تحصیلات دانشگاهی

۱.۲. «کارشناسی مهندسی عمران» و «کارشناسی ارشد مهندسی عمران، مهندسی سازه»، دانشکدهٔ فنّی، دانشگاه تهران، شهریور ۱۳۶۷.

۲.۲. دکترای مهندسی عمران، مهندسی سازه

۱) دانشگاه صنعتی امیرکبیر (پلی‌تکنیک تهران)

۲) تاریخ دفاع از رسالهٔ دکتری: شهریور ۱۳۸۶.

۳) عنوان رسالهٔ دکتری: مدل‌سازی انتشار یون کلراید در بتن‌های حاوی دودهٔ سیلیس، بر اساس نتایج تجربی.

۴) استاد راهنمای رسالهٔ دکتری: پروفسور علی اکبر رمضانیانپور

۴-۱) برنده جایزهٔ دانشمند بتن سال از انگلستان، ۲۰۰۷

۴-۲) برنده جایزهٔ دانشمند برجستهٔ بتن از انستیتوی بتن آمریکا (ACI)، ۲۰۰۹

۴-۳) استاد مَدعُو: در دانشگاه اُتاوا، کانادا (۱۹۹۲-۱۹۹۳)؛ در دانشگاه یاماگوچی، ژاپن (۱۹۹۹-۲۰۰۰)؛ و در دانشگاه تورنتو، کانادا (۲۰۰۷-۲۰۰۸)

۳. زبان‌ها

۱.۳. فارسی و انگلیسی، و همچنین آشنایی با زبان‌های عربی، آلمانی، فرانسوی، اسپانیولی و روسی

۴. مهارت‌ها و توانایی‌های نرم‌افزاری و کامپیوتری

۱.۴. نرم‌افزارهای عمومی و تخصّصی متداول

۵. مسئولیّت‌ها و سوابق دانشگاهی، پژوهشی، و اجرایی

توجّه: این بخش از جمله شامل «مسئولیّت‌های پژوهشی و سوابق عملکرد پژوهشی» است، ولی فعّالیّت‌های پژوهشی را شامل نمی‌شود. فعّالیّت‌های پژوهشی در بخش‌های بعدی ارائه شده‌اند.

۱.۵. دانشگاه رازی، کرمانشاه، ایران

۱) عضو هیأت علمی تمام‌وقت و رسمی‌قطعی دانشگاه دولتی رازی، دانشکدهٔ فنّی‌مهندسی، گروه مهندسی عمران، از سال ۱۳۶۸.

۲) «بنیانگذار و مؤسّس»، «مسئول راه‌اندازی» و سپس «اوّلین رئیس» «دانشکدهٔ فنّی‌مهندسی»، از بهمن ۱۳۶۸ تا بهمن ۱۳۷۰.

۳) مدیر گروه مهندسی عمران (دو دوره)، ۱۳۷۲-۱۳۷۶.

۴) معاون آموزشی، پژوهشی و تحصیلات تکمیلی دانشکدهٔ فنّی‌مهندسی، ۱۳۷۰-۱۳۷۲

۵) عضو کمیتهٔ منتخب دانشکدهٔ فنّی‌مهندسی، برای ارتقای مرتبهٔ اعضای هیأت علمی، ۱۳۸۰-۱۳۹۴.

۶) رئیس کتابخانهٔ دانشکدهٔ فنّی‌مهندسی: ۱۳۷۱-۱۳۷۶، و سپس ۱۳۸۶ و ۱۳۸۷.

۷) عضو «شورای چاپ و انتشارات کتاب دانشگاه»، ۱۳۸۹-۱۳۹۷.

۸) انتخاب به عنوان پژوهشگر برتر، دانشکده مهندسی عمران، دانشگاه رازی، آذر ۱۳۹۲.

۲.۵. «دانشگاه رازی» و «استانداری کرمانشاه»، کرمانشاه، ایران

۱) دبیر «کمیسیون تحقیقات آب استان کرمانشاه»، ۱۳۷۳-۱۳۷۶.

۲) رئیس «کمیتهٔ صنعت ساختمانِ» «کمیسیون پژوهشی صنعت استان کرمانشاه»، ۱۳۷۳-۱۳۷۶.

۳.۵. دانشگاه صنعتی امیرکبیر (پلی‌تکنیک تهران)، ایران

۱) استادیار مدعو در «مقطع کارشناسی مهندسی عمران»، دانشکدهٔ مهندسی عمران و محیط زیست، ۱۳۸۰-۱۳۸۴.

۲) استادیار مدعو «مقطع کارشناسی ارشد مهندسی عمران»، گروه مهندسی و مدیریت ساخت، دانشکدهٔ مهندسی عمران و محیط زیست، ۱۳۸۸-۱۳۹۳.

۳) عضو گروه پژوهشی تکنولوژی بتن، مرکز تحقیقات تکنولوژی و دوام بتن، ۱۳۸۱ تا ۱۳۹۲.

۴) عضو همکار و مَدعُو پژوهشکدهٔ سازه و زلزله، ۱۳۹۴ تا کنون

۵) عضو همکار و مَدعُو «پژوهشکدهٔ مهندسی زمین و عمران» در بخش‌های «مهندسی سازه، مهندسی زلزله و مهندسی و مدیریّت ساخت» و «فنّاوری بتن و دوام بتن»، از سال ۲۰۰۳ تاکنون.

۴.۵. «انجمن مهندسین عمران ایران (ISCE)»، تهران، ایران

۱)عضو اصلی هیئت مدیره (برای سه دوره)، ۱۳۸۶-۱۳۹۶.

۲) بازرس اصلی (برای دو دوره)، ۱۳۸۶-۱۳۹۶.

۳) مدیر روابط عمومی و امور بین الملل، ۱۳۷۹-۱۳۹۵.

۴) مدیر امور استان‌ها، ۱۳۷۹-۱۳۹۸.

۵.۵. فصلنامه اساس (نشریه علمی پژوهشی انجمن مهندسان عمران ایران)، تهران، ایران

۱) سردبیر علمی، از ۱۳۶۹ تا ۱۳۸۶.

۲) مدیر داخلی، از ۱۳۶۹ تا ۱۳۸۶.

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۶.۵. «وزارت راه و شهرسازی»، تهران، ایران

۱) رئیس «دپارتمان پژوهشی» «دفتر سازه‌های ایمن و امور سرپناه‌ها»، ۱۳۶۶-۱۳۶۷.

۲) عضو «کمیته تخصصی تدوین» «مبحث نهم مقررات ملی ساختمان ایران (طراحی و اجرای ساختمان‌های بتن آرمه)»، تهران، ایران، در سه ویرایش متوالی: ۱۳۸۵، ۱۳۸۸ و ۱۳۹۲.

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۷.۵. سازمان برنامه و بودجه کشور و مرکز تحقیقات راه، مسکن و شهرسازی

۱) عضو «کمیته تخصصی تدوین آیین‌نامه بتن ایران»، ویرایش ۲۰۲۱.

۸.۵. سازمان نظام مهندسی ساختمان استان تهران

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۲) «عضو هیأت اجرایی انتخاباتِ» «سازمان نظام مهندسی ساختمان استان تهران»، ۱۳۸۵.

۹.۵. سازمان نظام مهندسی ساختمان استان کرمانشاه

۱) «سردبیر» و «دبیر شورای نویسندگان» نشریّهٔ «بیستون (نشریّهٔ علمی و تخصّصیِ غیرادواری «سازمان نظام مهندسی ساختمان استان کرمانشاه»)، ۱۳۷۰-۱۳۸۶.

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۱۰.۵. موسّسهٔ آموزشی دانش مهندسی ایرانیان، تهران

۱) بنیانگذار، ۱۳۸۴

۲) مدیر عامل، از سال ۱۳۸۴
۳) عضو هیأت مدیره، از سال ۱۳۸۴
۴) مدیر ارشد اجرایی، از سال ۱۳۸۴
۵) مدیر آموزش و امور آموزشی، از سال ۱۳۸۴
۶) مدرّس ارشد، از سال ۱۳۸۴
۷) برگزارکنندهٔ سمینارهای تخصّصی، از ۱۳۸۶

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۱) بنیانگذار، ۱۳۷۰
۲) مدیرعامل، ۱۳۷۰-۱۳۷۴.
۳) عضو هیأت مدیره، ۱۳۷۰-۱۳۷۴.
۴) مهندس طرّاح و محاسب سازه، ۱۳۷۰-۱۳۷۴.
۵) مدیر پروژه، ۱۳۷۰-۱۳۷۴.

۱۲.۵. مرکز کارشناسان قوّهٔ قضائیّه، ایران

۱) «عضو منتخب علمی و حرفه‌ای» برای «مصاحبهٔ علمیِ» «کارشناسان رسمی دادگستری (قوّهٔ قضائیّه)» سراسر کشور، ۱۳۸۴ تا ۱۳۸۶.

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۱) طرّاح سؤالات و آزمون‌های تخصّصی مهندسی عمران، از سال ۱۳۷۶.

۶. سوابق و تجربیّات مختلف و متنوّع حرفه‌ای و مهندسی

۱.۶. در ارکان مختلف پروژه‌ها

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۲) انواع مختلف مجتمع‌ها
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۴) راهسازی

۵) انواع پروژه‌های واقع در شرایط رویارویی و محیطی دریایی
۶) و برخی دیگر از زمینه‌ها

۳.۶. در پست ها و مسئولیّت ها و جایگاه‌های مختلف در پروژه‌ها

۱) مدیر طرح در پروژه‌های عمرانی
۲) رئیس دفتر فنّی و طرح‌های عمرانی کارفرما
۳) دبیر شورای فنّی کارفرما
۴) مدیر پروژه در دستگاه کارفرما
۵) بنیانگذار شرکت مهندسان مشاور
۶) عضو هیأت مدیرۀ شرکت مهندسان مشاور
۷) مدیرعامل شرکت مهندسان مشاور
۸) مهندس طرّاح و محاسب سازه
۹) مهندس مشاور ارشد سازه
۱۰) مهندس ناظر و مهندس مقیم، در شرکت مهندسان مشاور
۱۱) مدیر پروژه، در شرکت مهندسان مشاور
۱۲) مشاور ارشد و عالی در زمینه بتن، در پروژه‌های ساختمانی
۱۳) مشاور ارشد و عالی، در زمینۀ « گودبرداری و ساخت سازه‌های نگهبان گودها و ترانشه‌ها»، در پروژه‌های ساختمانی
۱۴) سرپرست تیم مطالعات و طرّاحی در پروژه‌های عمرانی، در مهندسان مشاور
۱۵) مهندس کارگاه، در شرکت پیمانکار
۱۶) مدیر دفتر فنّی، در شرکت پیمانکار
۱۷) مترور در واحد متره و برآورد پروژه، در شرکت پیمانکار
۱۸) مدیر واحد متره و برآورد پروژه، در شرکت پیمانکار
۱۹) مدیر تهیّه صورتوضعیّت‌های ماقبل قطعی و قطعی در پروژه‌ها
۲۰) بنیانگذار شرکت تخصّصی آموزش مهندسی
۲۱) مدیر عامل شرکت تخصّصی آموزش مهندسی

۷. سوابق آموزشی و تدریس

۱.۷. تدریس در مقطع کارشناسی مهندسی عمران، دانشگاه رازی، ۱۳۶۷-۱۳۹۷.

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۱۹.۷. تدریس در «دوره‌های آمادگی» برای «آزمون‌های ورودی حرفه‌ای برای اخذ پروانهٔ اشتغال»، در تهران و برخی از استان‌های ایران، ۱۳۹۰-۱۴۰۳.

۲۰.۷. دروس دروس دانشگاهیِ تدریس‌شده در مقطع کارشناسی، در رشته‌های مهندسی عمران و معماری:

۱) نقشه‌کشی و رسم فنّی، و نقشه‌کشی ساختمانی
۲) مصالح ساختمانی
۳) تکنولوژی بتن
۴) استاتیک
۵) مقاومت مصالح (مکانیک جامدات)
۶) سازه‌های بنایی
۷) طرّاحی لرزه‌ای سازه‌های بنایی
۸) طرّاحی سازه‌های بتن‌آرمه (۱)
۹) طراحی سازه‌های بتن‌آرمه (۲)
۱۰) طرّاحی سازه‌های فولادی (۱)
۱۱) طرّاحی سازه‌های فولادی (۲)
۱۲) اجرای ساختمان (سازه‌های فولادی و بتن‌آرمه)
۱۳) کارگاه اجرای ساختمان
۱۴) مهندسی محیط زیست
۱۵) طرّاحی ساختمان ها در برابر زلزله
۱۶) آزمایشگاه تکنولوژی بتن
۱۷) ریاضیّات عمومی (۱)
۱۸) نقشه‌برداری
۱۹ عملیّات نقشه‌برداری

۲۰) زبان تخصصی مهندسی عمران (زبان انگلیسی)
۲۱) پروژهٔ تخصّصی مهندسی عمران
۲۲) مبانی مدیریّت ساخت
۲۳) مهندسی سیستم‌ها
۲۴) بارگذاری (بارهای وارد بر ساختمان‌ها و سایر سازه‌ها)
۲۵) متره و برآورد و پروژه
۲۶) گودبرداری و سازه‌های نگهبان
۲۷) تعمیر و مرمّت ساختمان‌ها
۲۸) مقرّرات ملّی ساختمان ایران
۲۹) ریاضیّات (۱)
۳۰) ایستایی (در مقطع کارشناسی معماری)
۳۱) ساختمان‌های بتنی (در مقطع کارشناسی معماری)
۳۲) مقاومت مصالح و ساختمان‌های فلزی (در مقطع کارشناسی معماری)

۲۱.۷. دروس دانشگاهیِ تدریس‌شده در مقاطع تحصیلات تکمیلی (کارشناسی ارشد و دکترا):

۱) پایداری سازه‌ها
۲) طرّاحی لرزه‌ای سازه‌ها
۳) تکنولوژی عالی بتن
۴) مکانیک مواد مرکّب.

۲۲.۷. دروس تخصّصی ضمن خدمت، که به مهندسان شاغل در برخی از وزارتخانه‌ها و سازمان‌ها (برای ارتقاء دانش مهندسی آن‌ها)، و نیز به مهندسان عضو سازمان نظام مهندسی ساختمان (برای ارتقاء پایهٔ پروانهٔ اشتغال) تدریس شده‌اند:

۱) مصالح و فرآورده‌های ساختمانی
۲) اجرای ساختمان‌های بتنی (بتن‌آرمه)
۳) نظارت بر اجرای ساختمان‌های بتن‌آرمه
۴) گودبرداری و اجرای سازه‌های نگهبان
۵) نظارت بر گودبرداری و اجرای سازه‌های نگهبان
۶) بتن‌های ویژه و بتن‌ریزی در شرایط خاص
۷) مرمّت، تعمیر و مقاوم‌سازی سازه‌ها
۸) بارهای وارد بر ساختمان

۹) ساختمان‌های بنایی
۱۰) مدیریّت ساخت
۱۱) گودبرداری و سازه‌های نگهبان، و تخریب ساختمان‌ها.

۸. عضویّت در انجمن‌ها و مجامع علمی ایران

۱.۸. انجمن مهندسین عمران ایران (ISCE)

۲.۸. انجمن مهندسان راه و ساختمان ایران

۳.۸. انجمن ایرانی مهندسان محاسب ساختمان

۴.۸. انجمن مهندسی زلزلهٔ ایران

۵.۸. انجمن بتن ایران (ICI)

۶.۸. انجمن ژئوتکنیک (انجمن مکانیک خاک و مهندسی پی) ایران (IGS)

۷.۸. انجمن مکانیک سنگ ایران (IRSRM)

۸.۸. انجمن هیدرولیک ایران

۹.۸. انجمن فارغ‌التّحصیلان دانشکدگان فنّی دانشگاه تهران

۱۰.۸. جامعهٔ دانش‌آموختگان دانشگاه صنعتی امیرکبیر (پلی‌تکنیک تهران)

۹. عضویّت در کمیتهٔ علمی کنفرانس‌ها و کنگره‌های علمی ملّی و بین‌المللی

۱.۹. «اوّلین کنفرانس علمی-تخصّصی انجمن مهندسان راه و ساختمان ایران»، تهران، مهر ۱۳۷۸.

۲.۹. «سومین کنفرانس بین‌المللی بتن»، دانشگاه صنعتی امیرکبیر (پلی‌تکنیک تهران)، تهران، اردیبهشت ۱۳۷۹.

۳.۹. «اوّلین کنفرانس ایمن‌سازی و بهسازی سازه‌ها»، دانشگاه صنعتی امیرکبیر (پلی‌تکنیک تهران)، تهران، اردیبهشت ۱۳۸۱.

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۵.۹. «سومین همایش بین‌المللی پل‌ها (بهسازی لرزه‌ای پل‌ها)»، دانشگاه صنعتی امیرکبیر (پلی‌تکنیک تهران)، تهران، خرداد ۱۳۸۷.

۶.۹. «اوّلین کنفرانس ملّی ایمنی، بهداشت و محیط زیست (HSE)»، وزارت کار و امور اجتماعی، تهران، دی ۱۳۸۷.

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۱۹.۹ «پنجمین همایش بین‌المللی پل (پایش سلامت پل‌ها، ایده‌های خلّاقانه، مواد جدید و فنّاوری‌های نوین در ساخت پل)»، دانشگاه صنعتی امیرکبیر (پلی‌تکنیک تهران)، تهران، آذر ۱۳۹۸.

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توضیح: در این فهرست، فقط به تاریخ چاپ اوّل کتاب‌ها اشاره شده است. ولی این کتاب‌ها عموماً به چاپ‌های متعدّد بعدی نیز رسیده‌اند.

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۴.۱۰. ریزساختار، خواص، و اجزای بتن (تکنولوژی بتن پیشرفته)، تألیف دکتر مهتا و دکتر مونته‌ئیرو، ترجمهٔ دکتر علی‌اکبر رمضانیانپور (عضو هیأت علمی دانشگاه صنعتی امیرکبیر)، دکتر پرویز قدّوسی (عضو هیأت علمی دانشگاه علم و صنعت ایران)، و دکتر اسماعیل گنجیان (عضو هیأت علمی دانشگاه صنعتی خواجه نصیرالدّین طوسی و دانشگاه کاوِنتری انگلستان)، **ویراستار علمی و هماهنگ‌کنندهٔ فصول: دکتر حمیدرضا اشرفی**، انتشارات دانشگاه صنعتی امیرکبیر، کتاب مرجع درس «تکنولوژی عالی بتن» در مقاطع کارشناسی ارشد و دکترای مهندسی عمران، چاپ اوّل: ۱۳۸۳.

۵.۱۰. ایمنی و اخلاق مهندسی، **دکتر حمیدرضا اشرفی**، یکی از کتاب‌های درسی و مرجع برای برگزاری «دوره‌های مهندسی حرفه‌ای (PE) در ایران، وزارت علوم، تحقیقات و فنّاوری، ۱۳۸۵.

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۸.۱۰. مبحث نهم مقرّرات ملّی ساختمان (طرح و اجرای ساختمان‌های بتن‌آرمه)، **دکتر حمیدرضا اشرفی: عضو گروه مؤلّفان و عضو کمیتهٔ تخصّصی تدوین مبحث نهم**، دفتر امور مقرّرات ملّی ساختمان، وزارت مسکن و شهرسازی، ویرایش دوم، ۱۳۸۵.

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و ترویج مقرّرات ملّی ساختمان، معاونت امور مسکن و ساختمان، وزارت مسکن و شهرسازی، تهران، ۱۳۸۷.

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۱۱.۱۰. فرهنگ مهندسی عمران (انگلیسی به فارسی)، مؤلّفان: دکتر رحمت مدندوست و دکتر محمّدکاظم حجّتی، **ویراستار علمی: دکتر حمیدرضا اشرفی**، انتشارات دانشگاه گیلان، ۲۰۱۰.

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۱۸.۱۰. مواد هوشمند و کاربردهای آن‌ها در زمینه‌های مختلف علوم و مهندسی، **تألیف دکتر حمیدرضا اشرفی** و مهندس علیرضا پولادخان، انتشارات نوآور، چاپ اوّل: ۱۳۹۳.

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13.55. **Hamidreza Ashrafi**, Mohammad Mehdi Roshni, Mohammad Saber Moradi and Hamed Moradi, "Evaluation of Characteristics and Performance of Lightweight Autoclaved Aerated Concrete (AAC)", (in Persian Language), "National Iranian Conference on Civil Engineering, Architecture and Sustainable Urban Management", Iranian National Standards Organization (INSO), Gorgan, Iran, July 2014.

13.56. **Hamidreza Ashrafi**, Mohammad Mehdi Roshni, Mohammad Saber Moradi and Gholamhossein Roshni, "A New Method for Analyzing Concrete Using Gamma-Ray Cross Section Imaging, and Increasing its Image Quality

Using Image Interpolation", (in Persian Language), "National Iranian Conference on Civil Engineering, Architecture and Sustainable Urban Management", Iranian National Standards Organization (INSO), Gorgan, Iran, July 2014.

13.57. **Hamidreza Ashrafi** and Amir Sajjad Mostafavi, "The Role of Permeability and Abrasion Resistance of Plastic Concrete in Rural Watertight Structures", (in Persian Language), "3rd National Iranian Conference on Sustainable Rural Development", "Higher Education Institution for Civil Engineering and Development", Hamadan, Iran, August 2014.

13.58. **Hamidreza Ashrafi** and Mehdi Rasaei, "The Effect of Concrete Confinement on the Load Bearing Capacity of Steel-Reinforced Concrete Composite (SRC) Columns", (in Persian Language), "6th Annual Iranian National Conference of Concrete, Iranian Concrete Institute (ICI)", Tehran, Iran, October 2014.

13.59. **Hamidreza Ashrafi** and Mehdi Rasaei, "Investigation of the Load Bearing Capacity of Steel-Reinforced Concrete Composite (SRC) Columns, Strengthened by IPE Steel Profiles", (in Persian Language), "6th Annual Iranian National Conference of Concrete, Iranian Concrete Institute (ICI)", Tehran, Iran, October 2014.

13.60. **Hamidreza Ashrafi** and Yousef Yousefi, "Comparison between the Relationships in American Institute of Steel Construction (AISC) Code and European Code (Eurocode 4), Regarding the Design of Composite Columns Buried in Concrete", (in Persian Language), "6th Annual Iranian National Conference of Concrete, Iranian Concrete Institute (ICI)", Tehran, Iran, October 2014.

13.61. Saman Tahmasbi and **Hamidreza Ashrafi**, "Investigation of the Effectiveness of the Spectral Acceleration at fundamental period [Sa (T1, ξ = 5%)] Intensity Parameter for Multi-Degree-of-Freedom Structures in Incremental Dynamic Analyses (IDA) within the Range of Linear Material Behavior", (in Persian Language), "First National Conference on Development of Civil Engineering, Architecture, Electricity and Mechanical in Iran (Conference National id: DCEAEM01)",Holder and Organizer: "Golestan University", in Collaboration with the "Oxford Cert Universal Academy, England", and the "Tadbir Bana Civil Engineering Company", Gorgan, Iran, December 2014.

13.62. Saeed Sabouri Qomi, **Hamidreza Ashrafi** and Sima Mohammadi, "Comparison of the Performance of Diagonal Cross- Shaped Buckling

Restrained Braces (BRBs) in Frames", (in Persian Language), "Second International Congress on Structures, Architecture, and Urban Development", Tabriz, Iran, December 2014.

13.63. Hamidreza Ashrafi and Yousef Yousefi, "Investigation of the Behavior of a Composite Column Embedded in Concrete, Under Eccentric Load", (in Persian Language), "Second International Congress on Structures, Architecture, and Urban Development", Tabriz, Iran, December 2014.

13.64. Hamidreza Ashrafi and Somayyeh Yaghouti, "Investigation of the Deformation Behavior of a Diaphragm Wall and its Influencing Factors", (in Persian Language), "Second International Congress on Structures, Architecture, and Urban Development", Tabriz, Iran, December 2014.

13.65. Hamidreza Ashrafi, Yousef Yousefi and Somayyeh Yaghouti, "Investigation of Shear Strengthening of Reinforced Concrete Beams with FRP, Based on Different Codes", (in Persian Language), "Second International Congress on Structures, Architecture, and Urban Development", Tabriz, Iran, December 2014.

13.66. Hamidreza Ashrafi and Sajjad Maleki, "Investigation of Cracking Phenomenon in Concrete, and Evaluation of Cracking Mechanism in Concrete Dams", (in Persian Language), "The First National Conference on Civil Engineering and Sustainable Development of Iran", Organizers: "Center for Strategies for Achieving Sustainable Development" and "Mehr Arvand Higher Education Institute", Tehran, Iran, December 2014.

13.67. Hamidreza Ashrafi, Mohammad Moein Akbari and Hamed Haseli, "Investigation of Problematic Soils, Focusing on Divergent Soils", (in Persian Language), "National Iranian Conference on Civil Engineering, Urban Planning and Sustainable Development", "Farzin Sustainable Development Center of Science and Industry", Tehran, Iran, February 2015.

13.68. Hamidreza Ashrafi and Mohammad Moein Akbari, "Principles of Crisis Management, and Comprehensive Requirements of Crisis Command Centers, for Achieving Integrated Crisis Management", (in Persian Language), "National Iranian Conference on Civil Engineering, Urban Planning and Sustainable Development", "Farzin Sustainable Development Center of Science and Industry", Tehran, Iran, February 2015.

13.69. Hamidreza Ashrafi, Seyyed Ali Hassanzadeh and Seyyedeh Faezeh Hassanzadeh, "Using Recycled Waste as Aggregate for Producing Recycled Concrete with Different Strengths", (in Persian Language), "The First National Congress of Iran's New Technologies, with the Aim of Achieving Sustainable

Development", Organizers: "Center of Strategies for Achieving Sustainable Development" and "Mehr Arvand Higher Education Institute", Tehran, Iran, February 2015.

13.70. **Hamidreza Ashrafi**, Seyyed Ali Hassanzadeh and Mohammad Mehdi Bagheri, "Applied Methods of Using Seawater, as Required Water in Concrete Mixing Design", (in Persian Language), "The First National Congress of Iran's New Technologies, with the Aim of Achieving Sustainable Development", Organizers: "Center of Strategies for Achieving Sustainable Development" and "Mehr Arvand Higher Education Institute", Tehran, Iran, February 2015.

13.71. Mehrdad Bayat and **Hamidreza Ashrafi**, "Comparison of Displacement Values Obtained from the Finite Element Method with Measured Values for Compressive and Tensile Soil Anchors", (in Persian Language), "The Second National Iranian Conference on Applied Researches in Civil Engineering, Architecture and Urban Management", Public University of Applied Sciences, Tehran, Iran, March 2015.

13.72. **Hamidreza Ashrafi**, Sasan Bashiri and Seyyed Ali Hassanzadeh, "Evaluation of Strength and Elastic Properties of Polymer Concrete, with Different Volumes of Volcanic Tuffs as Fillers", (in Persian Language), the "Annual International Conference on Civil Engineering, Architecture and Urban Planning", "Kharazmi Institute of Science and Technology", Shiraz, Iran, September 2015.

13.73. **Hamidreza Ashrafi**, Seyyed Ali Hassanzadeh and Jafar Chalabi, "Improvement of Design Regulations and Methods Related to Progressive Collapse in «General Services Administration (GSA) of USA» and «Department of Defense (DoD) in US Military Forces» Standards", (in Persian Language), "The Annual International Conference on Civil Engineering, Architecture and Urban Planning", Kharazmi Institute of Science and Technology, Shiraz, Iran, September 2015.

13.74. **Hamidreza Ashrafi** and Shahnaz Akbarabadi, "The Effect of Nanotechnology on Improving the Behavioral and Mechanical Properties of Concrete", (in Persian Language), "Fourth National Iranian Conference on New Materials and Structures", Yasuj University, Yasuj, Iran, November 2015.

13.75. Hossein Forouzesh, **Hamidreza Ashrafi**, Mojtaba Hosseini and Peyman Beiranvand, "The Effect of Earthquake Waves on the Fracture Mode of Glass Fiber Reinforced Plastic Pipes", (in Persian Language), "International Conference on Science and Engineering (Conference National id: ICESCON01)", Organizer: "Viera Capital Institute of Idea Managers (Modiran

Ideh Pardaz Paytakht Viera Institute)", Dubai, United Arab Emirates, December 2015.

13.76. Zahra Partovi and **Hamidreza Ashrafi**, "Progressive Collapse in Steel Structures equipped with Buckling Restrained Braces (BRBs) Due to the Removal of Corner and Middle Single Columns", (in Persian Language), "Second National Conference on Development of Civil Engineering, Architecture, Electricity and Mechanical in Iran", Holder and Organizer: "The Education and Research Group of Baroogostar Pars Engineering Company", in Collaboration with "The Oxford Cert Universal Academy", England, Gorgan, Iran, December 2015.

13.77. **Hamidreza Ashrafi** and Seyyed Ali Hassanzadeh, "Nonlinear Static Analysis of Reinforced Concrete Structures against Progressive Collapse, Considering Increasing Depth and Width of Beams Separately", (in Persian Language), "Third International Congress of Civil Engineering, Architecture and Urban Development", "Shahid Beheshti University", Tehran, Iran, January 2016.

13.78. Marzieh-Sadat Moayyeri and **Hamidreza Ashrafi**, "Evaluation of the Mixing Design of Lightweight Non-Load-Bearing Concrete Blocks Containing Lightweight Expanded Clay Aggregate (LECA), and Its Effect on Lightness and the Final Price of One Square Meter of Wall", (in Persian Language), "Second Scientific Research Congress of New Horizons in the Field of Civil Engineering, Architecture, Culture and Urban Management of Iran", "Association for the Development and Promotion of Fundamental Sciences and Technologies", Tehran, Iran, February 2016.

13.79. Marzieh-Sadat Moayyeri and **Hamidreza Ashrafi**, "The Use of Lightweight Non-Load-Bearing Blocks Instead of Traditional Materials in Buildings, and Their Impact on Energy Consumption", (in Persian Language), "Second National Iranian Conference on Energy and Sustainable Development", "Islamic Azad University, Takestan Branch", Takestan, Iran, February 2016.

13.80. **Hamidreza Ashrafi**, Seyyed Ali Hassanzadeh, Jafar Chalabi and Seyyed Mohammadreza Hashemi, "Assessment of Progressive Collapse in a Reinforced Concrete Building, and the Effect of Increasing Beam Dimensions on Reducing its Incidence", (in Persian Language), "The Third International Conference on Applied Researches in Civil Engineering, Architecture and Urban Management", "Khajeh Nasiroddin Toosi University of Technology (KNTU)", Tehran, Iran, March 2016.

13.81. Zahra Partovi and **Hamidreza Ashrafi**, "Comparison of Progressive Collapse under the Effect of Column Removal in a Steel Frame Equipped with Buckling Restrained Cross-Shaped and Chevron-Shaped Braces", (in Persian Language), "International Conference on Architecture, Urban Planning, Civil Engineering, Art and Environment; Future Horizons, Looking to the Past", Holder and Organizer: "Permanent Secretariat of the Conference", Tehran, Iran, March 2016.

13.82. Zahra Mohammadi and **Hamidreza Ashrafi**, "Investigation and Evaluation of the Effect of Slab on the Progressive Collapse Resistance of Reinforced Concrete Frame Structures", (in Persian Language), "8th Annual National Iranian Conference of Concrete", "Iranian Concrete Institute (ICI)", Tehran, Iran, October 2016.

13.83. Zahra Mohammadi and **Hamidreza Ashrafi**, "Investigation of Chloride Ion Attack on Reinforced Concrete Columns under Progressive Collapse", (in Persian Language), "8th Annual National Iranian Conference of Concrete, Iranian Concrete Institute (ICI)", Tehran, Iran, October 2016.

13.84. **Hamidreza Ashrafi** and Zahra Mohammadi, "Evaluation of Different Mechanisms of Reinforced Concrete Structures, against Progressive Collapse under Different Column Removal Scenarios", (in Persian Language), "Fourth International Congress of Civil Engineering, Architecture and Urban Development", Holder and Organizer: "Permanent Secretariat of the Congress", Tehran, Iran, December 2016.

13.85. **Hamidreza Ashrafi** and Zahra Mohammadi, "Laboratory Investigation of the Behavior of Reinforced Concrete Slab-Column, under progressive Collapse", (in Persian Language), "Fourth International Congress of Civil Engineering, Architecture and Urban Development", Holder and Organizer: "Permanent Secretariat of the Congress", Tehran, Iran, December 2016.

13.86. **Hamidreza Ashrafi** and Zahra Mohammadi, "Investigation and Analysis of Buckling Behavior of Stiffener Plates in Steel Shear Walls", (in Persian Language), "Fourth International Congress of Civil Engineering, Architecture and Urban Development", Holder and Organizer: "Permanent Secretariat of the Congress", Tehran, Iran, December 2016.

13.87. **Hamidreza Ashrafi and Zahra Mohammadi, "Evaluation and** Analysis of Post-Buckling Behavior of Thin Steel Shear Walls, Using Finite Element Method", (in Persian Language), "Fourth International Congress of Civil Engineering, Architecture and Urban Development", Holder and

Organizer: “Permanent Secretariat of the Congress”, Tehran, Iran, December 2016.

13.88. **Hamidreza Ashrafi** and Zahra Mohammadi, “Comparison of Linear and Nonlinear Static and Dynamic Analyses of Progressive Collapse of Reinforced Concrete Frames”, (in Persian Language), “Fourth International Congress of Civil Engineering, Architecture and Urban Development”, Holder and Organizer: “Permanent Secretariat of the Congress”, Tehran, Iran, December 2016.

13.89. Saeed Sabouri Ghomi, **Hamidreza Ashrafi** and Sima Mohammadi, “Investigation of the Performance of the Cross-Shaped Buckling Restrained Bracing”, (in Persian Language), “Fourth International Congress of Civil Engineering, Architecture and Urban Development”, Holder and Organizer: “Permanent Secretariat of the Congress”, Tehran, Iran, December 2016.

13.90. Yahya Adinefar, **Hamidreza Ashrafi** and Seyyed Shahab Hassaninasab, “Investigation of the Effect of Nano-Silica on the Compressive and Tensile Strength of Roller Compacted Concrete for Road Pavement (RCCP)”, (in Persian Language), “2nd National Conference on Concrete Surfaces”, “Road, Housing and Urban Development Research Center”, Tehran, Iran, May 2017.

13.91. **Hamidreza Ashrafi** and Razieh Souri, “Study and Investigation of Behavioral Parameters of Cast Modular Ductile Bracing (CMDB), with Prefabricated Steel Members”, (in Persian Language), “International Conference on Civil Engineering, Architecture and Urban Planning of Contemporary Iran”, Holders and Organizers: “Osveh University” and “Shahid Beheshti University”, Tehran, Iran, August 2017.

13.92. Roxana Rakhshandeh and **Hamidreza Ashrafi**, “Evaluation of the Behavior of Steel Structures with Concrete-Filled Tube (CFT) Steel Columns, against Progressive Collapse, Using Nonlinear Static Analysis”, (in Persian Language), “Fifth International Congress of Civil Engineering, Architecture and Urban Development”, Holder and Organizer: “Permanent Secretariat of the Congress”, “Shahid Beheshti University”, Tehran, Iran, December 2017.

13.93. Roxana Rakhshandeh and **Hamidreza Ashrafi**, “Evaluation of the Behavior of Steel Structures with Concrete-Filled Tube (CFT) Steel Columns, against Progressive Collapse, Using Nonlinear Dynamic Analysis”, (in Persian Language), “Fifth International Congress of Civil Engineering, Architecture and Urban Development”, Holder and Organizer: “Permanent Secretariat of the Congress”, “Shahid Beheshti University”, Tehran, Iran, December 2017.

13.94. **Hamidreza Ashrafi** and Somayeh Yaghouti, "Investigation of the Effect of Plasticity Behavior of Members on the Capacity Spectrum of Two-Dimensional Steel Frames with Height Irregularity", (in Persian Language), "Fifth International Congress of Civil Engineering, Architecture and Urban Development", Holder and Organizer: "Permanent Secretariat of the Congress", "Shahid Beheshti University", Tehran, Iran, December 2017.

13.95. **Hamidreza Ashrafi** and Seyyed Heidar Hosseini-Tabar, "Investigation of New Designs for Replacing Bracings with Buckling Risk in Buildings, with Steel Skeletons against Earthquake Forces to Ensure Structural Stability", (in Persian Language), "Third International Conference on New Horizons in Civil Engineering, Architecture and Urban Planning", "The Association of New Horizons for Science and Technology", Tehran, Iran, March 2018.

13.96. Salar Khorshidi, Abazar Asghari and **Hamidreza Ashrafi**, "Investigation of the Effect of Slotted Yielding Dampers and Improving Their Performance in Steel Moment Resisting Connections", (in Persian Language), "Islamic World Civil Engineering, Architecture and Urban Planning Conference", Holders and Organizers: "University of Tabriz", "Shahid Madani University of Azerbaijan" and "Tabriz Municipality Scientific-Applied University", Tabriz, Iran, May 2018.

13.97. **Hamidreza Ashrafi** and Behzad Rouhani, "Investigation of Seismic Behavior of Steel Buildings with Lateral Load-Bearing System of Steel Shear Wall and Concrete-Filled Tube (CFT) Steel Columns", (in Persian Language), "International Conference on Civil Engineering, Architecture and Urban Development Management in Iran", Holders and Organizers: "Maragheh Institute of Higher Industrial Education" and "Maragheh University of Technology", in Cooperation with "University of Tabriz" and "Shahid Madani University of Azerbaijan", Tehran, Iran, December 2018.

13.98. **Hamidreza Ashrafi** and Behnam Sajjadian, "A Review of the Behavior of Low-Yield-Point (LYP) Steel Sheets, and Their Application in Steel Shear Walls", (in Persian Language), "International Conference on Civil Engineering, Architecture and Urban Development Management in Iran", Holders and Organizers: "Maragheh Institute of Higher Industrial Education" and "Maragheh University of Technology", in Cooperation with "University of Tabriz" and "Shahid Madani University of Azerbaijan", Tehran, Iran, December 2018.

13.99. **Hamidreza Ashrafi** and Behnam Sajjadian, "Comparison of the Behavior of «Steel Shear Walls, Made of Low-Yield-Point (LYP) Steel Sheets»

with «Conventional Steel Shear Walls",» (in Persian Language), "International Conference on Civil Engineering, Architecture and Urban Development Management in Iran", Holders and Organizers: "Maragheh Institute of Higher Industrial Education" and "Maragheh University of Technology", in Cooperation with "University of Tabriz" and "Shahid Madani University of Azerbaijan", Tehran, Iran, December 2018.

13.100. **Hamidreza Ashrafi** and Somayyeh Yaghouti, "Investigation of Methods for Estimating Earthquake Damage, Using Geographic Information System", (GIS) (in Persian Language), "First National Iranian Conference on the Role of Civil Engineering in Risk Reduction", Holders and Organizers: "Razi University" and "Building Engineering System Organization of Kermanshah Province", Kermanshah, Iran, December 2018.

13.101. Hamidreza Ashrafi and Amir Hossein Tanha, "A Review of the Seismic Performance of Steel Moment Frames with T-Stub Connections Equipped with Friction Dampers", (in Persian Language), "First National Iranian Conference on the Role of Civil Engineering in Risk Reduction", Holders and Organizers: "Razi University" and "Building Engineering System Organization of Kermanshah Province", Kermanshah, Iran, December 2018.

13.102. **Hamidreza Ashrafi** and Amir Hossein Tanha, "Investigation of Reducing Environmental Risks through the Use of Concrete Containing Plastic Waste", (in Persian Language), "First National Iranian Conference on the Role of Civil Engineering in Risk Reduction", Holders and Organizers: "Razi University" and "Building Engineering System Organization of Kermanshah Province", Kermanshah, Iran, December 2018.

13.103. **Hamidreza Ashrafi**, Sepehr Almasi and Parsa Salemi, "Investigating and Understanding the Behavior of Reinforced Concrete Structures in Fire, and Methods of Improving Them against Fire", (in Persian Language), "First National Iranian Conference on the Role of Civil Engineering in Risk Reduction", Holders and Organizers: "Razi University" and "Building Engineering System Organization of Kermanshah Province", Kermanshah, Iran, December 2018.

13.104. Arash Bayat, **Hamidreza Ashrafi** and Mohammadreza Moradi, "Investigation of the Causes of Building Damages in 12th. Nov. 2017 Sarpol-e-Zahab Earthquake, and Methods for Strengthening Existing Structures", (in Persian Language), "First National Iranian Conference on the Role of Civil Engineering in Risk Reduction", Holders and Organizers: "Razi University"

and “Building Engineering System Organization of Kermanshah Province”, Kermanshah, Iran, December 2018.

13.105. Pouria Chavooshani, **Hamidreza Ashrafi**, Sina Mobki and Mohammad Hashemzadegan, “Investigation of Different Column Removal Scenarios on the Progressive Collapse Potential of Steel Moment Frames, Considering the Effect of Non-Structural Masonry Infills between Frames”, (in Persian Language), “The Second International Congress of Science and Engineering (Conference national id: GERMANCONF02)”, “University of Hamburg”, Hamburg, Germany, March 2019.

13.106. **Hamidreza Ashrafi**, Sina Mobki and Pouria Chavooshani, “The Effect of the Position of the Removed Column in Structures «with Soft Story Irregularity» and «with Variable Softness Values», on the Progressive Collapse Process of Reinforced Concrete Frames”, (in Persian Language), “The Second International Congress of Science and Engineering (Conference national id: GERMANCONF02)”, “University of Hamburg”, Hamburg, Germany, March 2019.

13.107. **Hamidreza Ashrafi**, Sina Mobki and Pouria Chavooshani, “The Effect of Irregularity Due to Discontinuity of the Lateral Load-Bearing System in Height, on the Progressive Collapse Process of Reinforced Concrete Frames”, (in Persian Language), “The Second International Congress of Science and Engineering (Conference national id: GERMANCONF02)”, “University of Hamburg”, Hamburg, Germany, March 2019.

13.108. Amir Hossein Tanha, **Hamidreza Ashrafi** and Fatemeh Tanha Sartakhti, “Numerical Simulation of T-Stub Steel Moment Connections Equipped with Slotted Yield Damper and Investigation of the Role of Connection Components on Its Cyclic Behavior”, (in Persian Language), “Sixth National Iranian Conference on Applied Researches in Civil Engineering, Architecture and Urban Management”, “Khajeh Nasiroddin Toosi University of Technology (KNTU)”, Tehran, Iran, June 2019.

13.109. Behzad Rouhani and **Hamidreza Ashrafi**, “Numerical Comparison of Seismic Behavior of Steel Shear Wall System with Concrete-Filled Tube (CFT) Steel Column and with Moment Frame and Cross Bracing Systems”, (in Persian Language), “Third International Conference on Applied Researches in Structural Engineering and Construction Management”, “Sharif University of Technology”, Tehran, Iran, July 2019.

13.110. Behzad Rouhani and **Hamidreza Ashrafi**, “Investigation of the Behavior of Steel Shear Walls with Concrete-Filled Tube (CFT) Steel Columns

with Moment Frame and Cross Bracing", (in Persian Language), "Third International Conference on Applied Researches in Structural Engineering and Construction Management", "Sharif University of Technology", Tehran, Iran, July 2019.

13.111. **Hamidreza Ashrafi**, Yeganeh Moradi Sartakhti and Seyyed Saeed Hosseini, "A Review of the Effect of Using Magnetic Water and Applying Magnetic Fields, on the Mechanical Properties of Concrete", (in Persian Language), "Sixth National Iranian Conference on New Technologies in Civil Engineering, Architecture and Urban Planning", "Shahid Beheshti University", Tehran, Iran, December 2019.

13.112. Amir Hossein Tanha, **Hamidreza Ashrafi**, Mohammad Mehdi Mahdavian and Fatemeh Tanha Sartakhti, "Investigation of the Effect of Using Coarse Plastic Fibers in Concrete", (in Persian Language), "International Conference on Civil Engineering, Architecture, Development and Regeneration of Urban Infrastructures in Iran", "University of Tehran", Tehran, Iran, July 20200.

13.113. Amir Hossein Tanha, **Hamidreza Ashrafi** and Fatemeh Tanha Sartakhti, "Using Silica and Nano-Silica in Plastic Concrete", (in Persian Language), "International Conference on Civil Engineering, Architecture, Development and Regeneration of Urban Infrastructures in Iran", "University of Tehran", Tehran, Iran, July 2020.

۱۴. استاد راهنما یا استاد مشاور رساله‌های دکتری مهندسی عمران

14.1. Mohammadreza Seifi Asgshahr, "Investigation of the Effect of Corrosion Caused by Chloride Ion Penetration on the Seismic Performance of Reinforced Concrete Bridges", (in Persian Language), Supervisor: Alireza Rahaii, **Advisor: Hamidreza Ashrafi**, Amir Kabir University of Technology (Tehran Polytechnic), Tehran, Iran, Defense Date: February 2017.

14.2. Arash Bayat, "An Investigation the Effect of Progressive Collapse Behavior in Double-Layer Spatial Structures (Scallop, Scheduler and Diamatic Domes)" (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: November 2024.

14.3. Somayyeh Yaghouti, "Investigation of the Effect of Nonlinear Normal Modes on Adaptive Pushover Analysis in Three-Dimensional Motion of Structures" (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi

University, Kermanshah, Iran**,** has not Defended yet, At the End of Defending Stage.

۱۵. استاد راهنما یا استاد مشاور پایان‌نامه‌های کارشناسی ارشد مهندسی عمران

15.1. Mostafa Jalal, "Numerical Investigation of Confinement Effect in Columns Reinforced with FRP Sheets", (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: September 2010.

15.2. Alireza Poladkhan, "Numerical Investigation of Electrodynamic Behavior of Layered Piezoelectric Smart Plates", (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: February 2011.

15.3. Hamidreza Ghanbari Rafatieh, "Investigation of Nonlinear Dynamic Behavior of Steel Frames with Composite (Concrete and Steel) Beams and Semi-Rigid Connections under Earthquake Accelerograms", (in Persian Language), Supervisor: Mojtaba Fathi, **Advisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: February 2011.

15.4. Hadi Moradi, "Investigation and Comparison of the Performance of Reinforced Concrete Frames Strengthened with Metal Braces and Steel Shear Walls", (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: December 2011,

15.5. Peyman Tedro, "Investigating the Performance of Several Types of Passive Dampers in Steel Structural Buildings, and Comparing It with the Performance of Concentric Braced Frames (CBF), with Screwed Connections in Conventional Steel Structural Buildings", (in Persian Language), **Supervisor: Hamidreza Ashrafi,** Razi University, Kermanshah, Iran**,** Defense Date: December 2011.

15.6. Kasra Shahbazian, "Nonlinear Finite Element Analysis of Different Types of Steel Shear Walls, and Their Comparison with Buckling-Restrained Braces (BRBs)", (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Islamic Azad University, Bushehr Branch, Bushehr, Iran, Defense Date: January 2012.

15.7. Yousef Bijazi, "Numerical Study of Composite Semi-Rigid Connections with Upper Seat Angle, with and without Web Angle, under Uniform Loads",

(in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: March 2012.

15.8. Shahin Bidmeshki, "Investigation of Effective Parameters on Structures with Energy Absorbing Dampers", (in Persian Language)", **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran**,** Defense Date: September 2012.

15.9. Somayyeh Yaghooti, "Studying and Comparing Deformation of Nailing and Diaphragm Wall Retaining Structures", (in Persian Language), **Supervisor: Hamidreza Ashrafi,** Razi University, Kermanshah, Iran**,** Defense Date: October 2012.

15.10. Salman Ghoorehjili, "Investigating the Effect of Using Buckling-Restrained Brace (BRB) on the Ductility and Displacements of Braced Steel Structures", (in Persian Language), **Supervisor: Hamidreza Ashrafi,** Razi University, Kermanshah, Iran**,** Defense Date: October 2012.

15.11. Mohsen Bozgodari, "Evaluation of the Behavior of Square Section Reinforced Concrete Columns with Shape Memory Alloy (SMA) Stirrups", (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: October 2012.

15.12. Sirvan Taherpoor, "Investigation of the Potential for Weak Floor Formation Due to the Rupture of Braces in Dual Steel Frames", (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: March 2013.

15.13. Soroosh Dadgar, "Investigating the Effect of Viscous Dampers on the Vibration Behavior of Dual Frames, and Determining the Behavior Coefficient of Those Frames", (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense date: October 2013.

15.14. Mohsen Javadi, "Investigation and Comparison of Double Steel Beam-to-Column Moment Connections, Using Side Plates and Using Internal Plates, Using the Finite Element Method", (in Persian Language), **Supervisor: Hamidreza Ashrafi,** Razi University, Kermanshah, Iran, Defense Date: October 2013.

15.15. Ali Ghanbari, "Structural Behavior of Concrete-Filled Tube (CFT) Steel Column Connections under Fire Effect during Heating and Cooling", (in Persian Language), **Supervisor: Hamidreza Ashrafi,** Razi University, Kermanshah, Iran, Defense Date: January 2014.

15.16. Mohammad Basharat, "Behavioral Comparison of Retaining Structures Using Nailing, Tie-Back and Diaphragm Wall Methods", (in Persian

Language), **Supervisor: Hamidreza Ashrafi,** Islamic Azad University, Hamedan Branch, Hamedan, Iran, Defense Date: February 2014.

15.17. Sima Mohammadi, "Investigation of the Behavior of Cross-Shaped Buckling-Restrained Brace (BRB)", (in Persian Language), **Supervisors**: Saeed Sabouri Qomi and **Hamidreza Ashrafi**, Sadrol Mota'allehin Institute of Higher Education (Sadra University), Tehran, Iran, Defense Date: September 2014.

15.18. Kamran Rostampoor, "Structural Damages Detection in Plates, Using Wavelet Transform", (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran**,** Defense date: October 2014.

15.19. Yousef Yousefi, "Investigation of Behavior of Composite Columns Buried in Concrete, Under Eccentric Load", (in Persian Language), **Supervisor: Hamidreza Ashrafi**, Razi University, Kermanshah, Iran, Defense Date: October 2014.

15.20. Mehdi Rasaei, "Investigation of the Seismic Behavior of CFT-SRC Steel-Concrete Composite Columns, Reinforced with Double IPE", (in Persian Language), **Supervisor: Hamidreza Ashrafi,** Razi University, Kermanshah, Iran**,** Defense Date: October 2014.

15.21. Amirhossein Elliyyin, "The Effect of Soil Arching Action on the Stability of Excavation Walls", (in Persian Language), **Supervisor: Hamidreza Ashrafi,** Islamic Azad University, Hamedan Branch, Hamedan, Iran**,** Defense Date: November 2014.

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19.3. Omran Amiriani, "Evaluation of Durability of Concrete Containing Aggregates from Recycled Concrete, against Thawing and Freezing Cycles", (in Persian Language), Supervisor: Mahmoud Nili**, Reviewer: Hamidreza Ashrafi**, Bu-Ali Sina University, Hamedan, Iran, Defense Date: October 2011.

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Training University, Supervisor: Amir Tarighat, **Reviewer: Hamidreza Ashrafi,** Tehran, Iran, Defense Date: July 2016.

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